# The Mining Journal COMMERCIAL GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 626 .--- Vol. XVII.

LONDON, SATURDAY, AUGUST 21, 1847.

PRICE 6D.

MINING MATERIALS, &c., in IRELAND, in the Queen's County, between and Athy, consisting of TWO STEAM-ENGINES, both recently in active work. ONE CONDENSING, adapted both for pumping and winding, about 35-horse power, winder 24 inches diameter, 6-fleet stroke, fly-wheel 16 feet diameter, cast metal beam and connecting-rod, double cranks, sur-wheels and plaines, with two large quadrants, or cell cranks, with two boliers, one 36 feet long, 4½ feet diameter, with safety valve, the stier 18 feet long, 5 feet diameter, with safety valve, the stier 18 feet long, 5 feet diameter, with valves, sec.

ONE RIGH-PRESSURE ENGINE, of 18-horse power, for winding and pumping, cynder 10 inches, 3-feet stroke, fly-wheel 19 feet diameter, with valves, sec.

PIT HEAD GEARING, &c.—consisting of pulley frame and engine-shaft shears, motal ope rolls, 300 yards of 4-inch fist-ropes, 2 capsians, 3 fist-rope pulleys, coal boxes, iron reasonads, 6 by 6-inch prilleys, large beam, scales, and weights, a whim, 10 feet diameter, a lines 7 compass, measuring chairs and suith's tools, taps, dies, &c.; office furnits, a minist's compass, measuring chairs, iron waggons, barrows, wire rope, by it chains, and 16-inch pump, iron cages, a lashe and strap, nall-rol iron, eng-wheels and pinlone, re blocks, and a undry medial colliery and mining implements.

a miser's compass, measuring chains, fron weggoes, barrows, whre roop, p i d-inch pumps, iron cases, a lathe and etras, nall-red iron, oug-wheels an olooks, and aundry useful colliery and mining implements. Arther particulars may be known, and the property may be seen, by appli Thomas Johnson, the manager, a this Rushes Colliery in the Queen's Co

TO BE SOLD, BY PRIVATE CONTRACT, at GODOL-PHIN MINES, ONE 24-inch STAMPING-ENGINE, 8 feet stroke, boiler, 11 tons. ONE 18-inch WHIM-ENGINE, 4 feet stroke, boiler, 7 tons, and cage. SIX TUBULAR BOILERS, 11 tons each. A large IRON BALANCE-BOB, 12 tons. Application to be made to Capt. R. Williams, on the mines. Date4 Godolphin Mines, Helston, Cornwall, August 9, 1847.

OR SALE, a 70-inch cylinder ENGINE, without boilers.

For price, and further particulars, please apply to Samuel Grose, Esq., engine call, Gwinear, Camborne.

Wall, Gwinear, Camborne.

POR SALE, AT TRETOIL MINE, LANIVET, NEAR BODMIN CORNWALL.—1 66-inch cylinder STEAM PUMPING ENGINE, with two boilers, about 20 tons, complete—one other boiler, about 12 tons; 1 21-inch cylinder STEAM PUMPING ENGINE; 44 17-inch PUMPS; 2 17-inch plunger-pole as 12 is-inch cylinder STEAM PUMPING ENGINE; 44 17-inch PUMPS; 2 17-inch plunger-pole and case, 6-inch ditto, H, 94, 8, and 6 inches, with windbores; 13-inch plunger-pole and case, 6-inch ditto, H-picc and door-picco, &c.; 8-inch plunger-pole, balance-bobs, capstans and shears; 130 inthoms 13-inch capstans-rope, whim-rope, main-reds, strapping-plates, staples and glands, pulleys, rathread from, trass wagnes, and numerous articles, well worthy of stention—much of the pitwork and materials being nearly new, and in good condition.

Apply to Mr. Henry Thomas, 6, Googge-yard, Lombard-street, London; Mr. George-Gasch, Bodmin; or to Capt. Henry Williams, at the mine—Dated July 10, 1847.

OR SALE, AT TRENOW CONSOLS MINE, NEAR MARAZION, in the county of Cornwall, an 3b-inch cylinder STRAM PUMPING-GINE, 10-fect stroke, equal beam, with three believe, of 36 tons; 6 fathoms of 17, 35 fathoms of 16-fect, and 10 fathoms of 9-inch PUMPS; 1 15-inch, and 10 fathoms of 9-inch PUMPS; 1 15-inch, 1 8-inch, and 10 fathoms of 9-inch PUMPS; 1 15-inch, 1 8-inch, and 10 fathoms of 9-inch PUMPS; 1 15-inch, 1 8-inch, and 10 fathom of 16-inch, inch, barries; 4 15-inch clack seators; 1 15-inch and 1 14-inch H and top door-pieces; 1 121-inch, 1 14-inch, and 2 inch plunger-poise, with suitable stompop-boxes and glands; 2 caustans and 1 shears; 2-inch and 1 9-inch capstan rope, each about 100 fathoms long; 1 balance and is-bob; 80 fathoms of from 7 to 13-inch main-rods; strapping plates, bolts, and burries go bolts, staples, and glands; horse-whims, whim chain, and kibbles, with numerous cles, well worthy the attention of mine adventurers and agents.
publication to be made to the agents at the mine; et to Mr. Heary Thomas, Mining cos, 8, George-yard, Lousbard-street, Loudon.—Dated July 15, 1847.

To BE LET, and entered upon immediately, a valuable SEAM of STEAK-COAL, of shout 200 acres, more or less, situated at OLD SHILDON, the county of DURHAM. The shaft is already sunk, and a private line of railway consist is with the Stockton and Darlington and Clarence Railways, below the Bruselton line: there is also a considerable thickness of FIRE CLAY, containing great quantities of HoMS FOME interesticated with it—a sample of which can be seen on the bank—and left, being let with the coal, might together be worked with very great advantage, and coll worthly of the attention of those wishing to embark in such a speculation. CLAT o, for raisking bricks and draining tiles, is in great abundance, and can also be let at a same time—apply to Mr. John Robson, of Hedwoth House; or to Mr. Wm. Clausenson, of Old Shildon.—August, 1847.

O BE LET, the PARK-HILL MINES, DEAN FOREST GLOUCESTERSHIRE—containing ONE MILLION TON LLION TONS of rich RON ORE, which, being calcarcons, and ironstone, and may be delivered in large quantities to the 5t d Welsh iron-works, at a pries far below the cost of local trous inable by level, and can be opened at a triffing expense; as case, their produce might be smelted on the spot into excelled) the Theory R. Fryer, Eq., solicitor, Coleford, Gloucestership.

DUDJENGSTONE AND BRUNSTAIN COAL-FIELD near EDINBURGH, TO BE LET, as detailed in former advertisements. T MMS OF COAL are numerous, and BLACKBAND IROMSTONE may be expected lands, similar to that which has been recently discovered at Gimerica, Dryden, as salaw, in the same range of coal strate. Excellent LTMESTONE is known in the farmer and allow the harbours of Leith and Fisherrow, with all which the existing way, passing through the cestaic council, remove the calculations. There are two steam-engines, and other colliery machinery, at the pith, or thick is nearly sunk to the Jewel Coal. The former of the lases to be addressed to Mr. Geddes, 49, Albany-street, Edinburgh. UDDINGSTONE AND BRUNSTAIN COAL-FIELDS

A L E N T I A S L A B C O M P A N Y.

INCORPORATED BY ROYAL CHARTER.

Capital \$160,000, in shares of \$10 asch.

The VALENTIA QUARRIES are well known for the SUPERIOR QUALITY of their YEs, and its peculiar adaptation for sawing into slabs. Valentia Slabs, indeed, have read the stabilished article of commerce in the London market; and there is a read and the read of the same of the stabilished article of commerce in the London market; and there is a read and rapidly-increasing demand for them by builders, contractors, 8c., for various loss—as rallways platforms, the floors of factories, warehouses, granaries, stores, mail sees—as rallway platforms, the floors of factories, warehouses, granaries, stores, mail sees—as rally and stabilished from the floors of factories, warehouses, granaries, stores, mail sees—as ralled in the contract of the grane of factories, warehouses, granaries, stores, mail sees—as ralled in the propose of parties associated the gastestimation and propose to increase the capital and contract a Royal Charter of Increase in the date capital and the works. The charter has been granted on most advantageous and the grane and the works.

RUNTON'S PATENT ORE-DRESSING FRAME.
These FRAMES, for DRESSING TM. COPPER, and OTHER MINERALS, bay

THE PATENT SAFETY FUSE, OPERATIONS—The article affords the EAPEST, GHEAFEST, and most EXPEDITIONS—This article affords the EAPEST, GHEAFEST, and most EXPEDITIONS MODE of effecting this very hazardom operation. From many testimonies to its meaniness with which the manufactures have been fivered from every part of the kingdom, they select the following letter, recently recorded from John Taylor, Eag., F.R.S., c.,—"I am very glad to hear that my recommendations have been of any service to you; they have been given from a thorough conviction of the great usefulness of the safety Fuse; and I am quite willing that you should employ my name as evidence of this." Manufactured and sold by the Patentees, BICKFORD, SMITH, and DAVEY, Casporn, Comwall.

SMITH AND ENGLISH (LATE ANDREW SMITH),
PRINCES-STREET, LEICESTER SQUARE, LONDON,
ENGLNEERS, MACHINISTS, IRON AND BRASS FOUTDERS, Me.,
PATENTEES and MANUFACTURERS of Improved Steam engines, Rapid Steam Generators, Railway Wheels, Rails and Chairs, Propellers for Canul and River Navigation.

STRONG MIXING PIG-IRON.—The YSTALYFERA
IRON COMPANY, beg to solicit ORDERS for their ANTHRACITE PIG-IRON.
This from mixes well with Scotch pig—imparting to it strongth and elasticity, and receiving from it a portion of its softness and fluidly. No. 2 Pig is recommended for mixing with soft from—Nos. 1 and 2, for machinery eastings, requiring great soundness and strength. At this period, when east-tron is so much employed in the construction of bridges and other buildings, requiring all the attength and elasticity which the beat mixture of metal will afford, it may be interesting to call attention to the characteristics of ANTHRACITE PIG-IRON, as a revoarzo on by that great practical authority, the late David Mussure, Esq., M.I.C.E.:—
"It grown only eremains for me to mention a properly peculiar to this from, which was noticed at the time I made the trial experiments, four years ago, but which has been more fully developed in those uner recently made. The property referred to is one of great expringences, or elasticity, which communicates a tendency to the bar, in deflecting and breaking, to resume its rectangular form. Bars that had obtained a permanent set of 2-108hs, when afterwards broken, presented but a slight deviation from a right line; and in no case, sid the curvature exceed one-boarth of a tenth."

"It was also remarked, that most of the fractures, in breaking, presented a regularity of greats throughout, resembling the structure of unbardened etect."

Address THE YSTALYFERA IRON COMPANY.

y grass throughout, resembling the structure of unhardened steet,"

Address THE YSTALYFERA HON COMPANY,

Dated June 23, 1847.

Near NEATH, SOUTH WALES.

HOT-BLAST WITHOUT COAL, LABOUR, on REPAIRS.

DIXON AND BUDD'S PATENTS.

Apply for particulars, or to inspect the process in operation on six blast-furnaces, to J. Falmer Budd, Esq., Ystalyfera Iron-Works, near Seath.

Dated June 23, 1847.

A DCOCK'S PATENT SPRAY PUMP.—This important INVENTION having been PERFECTED, and brought into SUCCESSFUL PRACTICAL OPERATION at LLANHIDDEL, at pits belonging to R. J. Blowtit, Esq., M.P., Llaniarnam Abbey, near Newport, Monmonthshire, the PATENTEE is ready to RECEIVE, and to execute, ORDERS.—Apply to Henry Adcock, C.E., at his offices, 137, Strand, London, where pamphiets, descriptive of the invention, may be had; at the office of the Mining Journal, 26, Floet-street; and through any respectable bookseller—prices.

RETT AND LITTLE'S TELEGRAPH.—The Patentees beg to inform all RAILWAY COMPANIES, that, having COMPLETED their FATENT ARRANGEMENTS, they are now enabled to demonstrate the principle of their ELECTRO-TELEGRAPHIC CONVERSER, which is allowed, by all who have seen it, to be the most Prayers Telegraph hitherto invented.— Mesers BRETT & LITTLE are also prepared to TREAT for its ADDPTION, on the most liberal and economical terms.

The TELEGRAPH may BE SEEN in ACTUAL OPERATION, through secentics instruments, and colls of wire equal to one thousand, miles, by tickets, to be had in reply to an application by post.—Furnival's Inn, London.

TIADUCTS AND OTHER RAILWAY WORK .- The at-

IADUCTS AND OTHER RAIL WAY WORK.—The attention of Railway Engineers, Architects, and Contractors is particularly directed to the great advantages to be derived from the application of SETSEL ASPHALTE, as the only impervisors and permanent covering for arches and roofs, and lining of reservoirs, gutters, &c. The arrangements of CLARIDGE'S PATENT ASPHALTE COMPANY enable it to execute works of any extent with the greatest promphitade.

In order to guard against the use of spurious materials, it is important that all applications for works to be executed be made direct to this company; and, as a further protection, it is suggested that Engineers, Architects, and Contractors, should require a CERTIFICATE from the company that the proper description of material has been used.

Information may be obtained as to all works which have been executed by the company since its establishment in 1838, which will prove that the failure of many works represented to have been done with the genuine material has resulted from the substitution of a spurious one.

Seysed Asphalte Company, Stangate, London.

IMPORTANT TO RAIL WAY AND STEAM NAVIGATION COMPANIES, MANUFACTURERS, AND ENGINEERS.
W. BROTHERTON AND CO.'S

W. BROTHERTON AND CO.'S

PATENT LUBRICATING FLUID (or Animal Oil) FOR ALL DESCRIPTIONS

W. B. & CO. have the pleasure to state, that the above article is extensively used in her Majesty's Steam Navy, and by several of the principal Steam Navigation and Railway Companies, and is pronounced by them, and by the first practical engineers of the day, to be first processed in the proposes. The Patent Lubricating Fluid is equally applicable for the most intricate and fine pieces of machinery, as for the heaviest bearings of the steam-engine. It is cheaper, much more economical, and cleaner than oils at present in use; is free from smell, and calculated to effect a vast saving in the expenditure of working steam powers. Further particulars can be had, and testimonials seen, by any leasting the measurement. Further particulars can be had, and testimonials seen, by application to turers,

W. BROTHERTON & CO., Hungeriord Wharf, Strat
N.B.—The above article will burn in lamps, and give a light equal to the b

MPORTANT. TO ENGINEERS, MANUFACTURERS, RAILWAY AND STEAM-BOAT COMPANIES.

Messrs. W. & C. MATHER beg to call the attention of the ABOVE PARTIES to their IMPROVED PATENT ELASTIC METALLIC PISTONS.

The PRINCIPAL FEATURE and ADVANTAGE of THIS IMPROVEMENT 10-19

Its great ELASTICITY and SELF-ADJUSTING PROPERTIES, which e yield to any inaccuracy of the cylinder, whether oval or taper, and to move wit

having the vertical and lateral pressure in the man and adapted for air and was cash other.

3. It takes the LEAST possible SPACE, and is well adapted for air and was it allows of a larger water way.

Messrs. W. & C. MATPIER feel confident that it is the BEST ELASTIC B PACKING yet known, for the above reasons.

Models may be seen at the Salfard Iron-Works, Manchester; at W. Barker' Klewton-Moor; and also at J. Mather's, engineer, Boaufort-ireet, Chelses, L. Klewton-Moor; and also at J. Mather's, engineer, Boaufort-ireet, Chelses, L.

FLEXIBLE HOSE-PIPES FOR LOCOMOTIVE ENGINES, RAILWAY CRANES, FIRE-ENGINES, GAS, &c.

PATENT VULCANISED INDIA-RUBBER HOSE-PIPES AND TUBING

OF EVERY DESCRIPTION.

These pipes are made to stand hot-water without injury—are very superior to leather pipes, or the common India-rubber pipes; and, as they do not become hard or stiff in the lowest temperatures, or require any application when out of use, are particularly well adapted for fire-engines.

FLEXIBLE TUBING, of every description, for gas, chemical purposes, &c.

VULCANISED INDIA-RUBBER WASHERS, all sizes, for steam and hot-water joints, &c.—Sole manufacturer,
Geawell Mows, Goswell-road, London.

TO ENGINEERS, RAILWAY CONTRACTORS, MINING AGENTS, IRONMASTERS, AND OTHERS REQUIRING FIRE GREASE for MACHINERY and ALES of overy description.—JOSEPH PRECIVAL'S IMPROVED ANTI-PRICTION GREASE is—after trials on machinery and axies of every kind where constant friction is kept up—admitted to be the most useful, economical, and best preparation of the kind ever offered to the public.

DATENT KAMPTULICON COMPANY, 18, CORNHILL. This company having completed their new factory, are preparagers and contractors with an elastic material (perfectly non-ab the rails and sleepers, and between the frames and bodies of ing, and, consequently, wear and tear. . The elastic planking is significant to the consequency of the consequenc pers, and between the castle planking is strongly recomment and sides of carriages, to provent splinters—size accidents on By order of the board. P. G. GREVILLE, Secretar

PATENT GALVANISED IRON AND WIRE ROPE WORKS

ATDREW SMITH begs to inform the Mining Railway, and Shipping is has obtained a PATENT for an IMPROVED METHOD of GALVANISH ducing a much superior article at a considerable saving in cost—the imprealvanising wire rope, adding only £10 per ton instead of £20, under the same. The rope is extensively used in damp situations, for mining an oses, and for ships' standing rigging:

OFFICE FOR PATENTS, 7, STAPLE INN, HOLBORN, J. MURDOOH (successor and late assistant to Mr. Hebert)
Informs INVENTORS and PATENTEES, that, at his OFFICE, they can obtain
REFERENCE TO A CLASSIFIED LIST OF PATENTS,
(THE ORLY ONE EXTANT), which shows at one view all the Patents ever granted for any

THE ENGINEER'S AND CONTRACTOR'S POCKET-BOOK, for 1847 and 1846, New Edition, is now just published, price 6a. 25

WILSON & FRASER, 2, WELLINGTON-BUILDINGS, LIVERPOOL, and 18, EXCHANGE-PLACE, GLASGOW, have always ON SALE PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

MINING OFFICES, 1, ST. MICHAEUS-ALLEY, CORNEILL, LANDON.

WATSON AND CUELL, MINE AGENTS.

N.B.—STATISTICAL INFORMATION furnished (on application) to SHARLINGER in MINES in Cornwall, Davon, Scotland, Ireland, Wales, and Spain.

WILLIAM H. SMITH, MINING SHARE AGENT

R. R. TREDINNICK, MINING AGENT AND DEALER
IN EVERY DESCRIPTION OF SHARES.
THREE KINGS COURT, LOMBARD-STREET, LONDON.

THOMAS P. THOMAS, MINE AGENT, AND DEALER
IN RAILWAY AND OTHER SHARES.
19. THREADNEEDLE-STREET, LONDON.
Mr. T. P. THOMAS is a SELLER of Gwincar Concols, at £21; West Wheal Providence.
11. £18—and is a BUYER of Trohanes, Herodafoot, Herodacomb, North Pool, & East Pool,

JAMES LANE, MINING SHARE DEALER, 15, OLD BROAD-STREET, LONDON.

BRITISH MINING OFFICES, 41, MOORGATE-STREET, LONDON.—PROSPECTUSES may be had, and ORIGINAL SHARES ALLOTTED in the COPPER and SILVER-LEAD MINES connected with these offices, on application to the secretary,

MONEY.—MESSRS. WINSTANLEY & CO., Sharebrokers, having at their command a very large SUM of MONEY for INVESTMENT, inform their friends and the public, they are prepared to make ADVANCES on the deposits of English or Foreign Railway or Mining Shares, upon exceedingly advantageous terms: they also BUY and SELL every description of STOCK at much less commission than usually charged.—6, Bank Chambers, City, opposite the Bank of England.

ANWEN IRON COMPANY.—Notice is hereby given, that the next ORDINARY GENERAL MEETING of the shareholders of this company will be HELD as their offices, 28, Threadneedle-street, London, on Monday, the 30th inst., as One of clock precisely.

By order,

By P. HARRIS, Secretary, 23, Threadneedle-street, August 18, 1847.

DAROSSA RANGE MINING COMPANY.—At a S
General Meeting of this company, held at 13, Bedford-row, London, on T
the 10th day of August, 1847.

The report of the directors was read and adopted, and resolutions were passed,
thing them to invest a limited sum in the acquisition of minoral lands, exempt from
and to acquire other mineral lands on which experiments might be made in the
stance, with liberty to purchase afterwards.

And they were also authorized to make experiments for reducing the ore, by an
a they might deem advisable, in order to the economy of carriage and freight.

And a resolution was passed, for subdividing the shares into 6600, of £10 each,
of 500, and for a call (within one month) of £5 on each original share.

And for such alterations in the constitution of the company as were consen

LANCYNFELIN MINES COMPANY.—At a Meeting of
adventurers, held at the offices, 44, Finsbury-square, on Friday, the 18th inst,
It was resolved,—That two several special general meetings of the shareholders of this
company be called forthwith, for the 3d of Sept. next—the first of such meetings being
for the purpose of dissolving, or otherwise, this company; and the second thereof, for the
purpose of confirming, or otherwise, the resolution to be agreed to at such first meetings
BENJAMIN SMART FOWLER, Chairman

EAST COOMBE SILVER AND LEAD MINING
COMPANY—In 4096 shares, at One Guines per share.
CONDUCTED ON THE COST. BOOK SYSTEM.

BARKERS—The National Provincial Bank of England, Barnstaple.
SECRYARY—Mr. George Chowen.

The mines possessed by the company extend upwards of 809 shthoms on the run of the lodes, and about 200 fathoms in a cross direction, situate in the partial of Swymbridge, near Barnstable, being held under a lease of 21 years, at 1-18th dues. The lodes are parallel with those of the Combmartin Mines, and in every respect similar in their component parts, matrix as well as country (which latter is a kindly killas), and may be worked at an easy cost. The operations of the present company have been confined for the past two years to clearing up the old workings, sinking engine-shaft, extending levels, &c.; but it being deemed essentially necessary to erect a steam-engine, with the view of putting the mine to a greater depth, as also proving the north lode, thas been determined to extend the number of shares to 4096, with a payment of One Geinea per share, a considerable proportion of which will be taken by the present proprietors. If may be off-steam-power, there being a good water-whoel exceed, but which can only be partially applied, from the top water falling off; during which time the north lode (the most promising one in the sett) can be intersected at the 10 and 36 fathom levels, and driven on at those points. The adventurers have lately secured a valuable addition to the sett, which considerably enhances the value of the property.

In working the mines, it is intended to adhere strictly to the Cost-book Systom; a finance committee being appointed, who will have centrel label beyond and see to their property.

In working the mines, it is intended to adhere strictly to the Cost-book Systom; a finance committee being appointed, who will have centrel label beyond the first property and see to their property.

In working the mines, it is intended to adhere strictly to the Cost-book Systom; a finance commi

In have inspected the East Coombe Mine, and beg to hand you my report. The mine is ocated in a stratum of rich blue killas. The lodes are parallel to those of the celebrared Combinartin Mine, and in similar strata of ground. A considerable quantity of ore appears to have been taken from the south lode. In the bottom of the 10 statem level, good branch of silver-lead ore is going down, and I have no doubt of your having a course for ore in this lede at the next level.

The north lode, however, in my opinion, is the most kindly one in the sett. The indistions at the saidt being of the most encouraging nature, I strongly recommend this lode eling cut, with all possible dispatch, at the 10 and 20 fm; levels; and I confidently heliever you will find it rich when interacted. The machinery is in first rate order, and well laid ut. It is my firm conviction; that if a steam-engine were creeced, and the vorking ignrously prosecuted, considerable returns might at once be made.

J. WILLIAMS.

Applications for shares to be made to J. P. Gilbert, Esc., Manager, Nationank, Barnstaple; Mr. John Westacott, East Coombe Mining Office, Swyu to secretary, Mr. George Chowen, from whom prospectuses may be had.

DIRMINGHAM, WOLVERHAMPTON, AND DUDLE

BIRMINGHAM AND OXFORD JUNCTION RAILWAY

-Notice is hereby given, that the next ORDINARY MEETING of the shareholder
of the Sirmingham and Oxford Junction Railway will be Held at Dec's Royal Host, of
Temple-row, Birmingham, on Monday, the 30th day of August, 1847, at Trace Orige

ORNWALL RAILWAY—HALF-YEARLY ORDINARY MEETING.—Notice is hereby given, that the HALF-YEARLY ORDINARY MEETING of the shareholders in the CORNWALL RAILWAY COMPANY will be HELD in the Assembly Room; at Trury, or Truryday, the 88th inst., at noon preceder.

The transfer books will be closed on the 18th inst., and will not be reopened until the said half-yearly ordinary meeting.

J. T. TREFFERY, Otherman,

DATENT OFFICE AND DESIGNS REGISTRY, No. 210 STRAND.—Inventors are hereby informed, that the Ommal Greenas of Instru-detailing the most second-scal and proper course for the protection of new Inven-and new Designs, and containing the Reduced Scale of Fees, or further information be had gratial our application, personally or by letter, pre-paid, to F. W. CAMEZI COMPANY, 310. Strand (corner of Essax-street), London.

DATENT IMPROVEMENTS IN CHRONOMETERS. WATCHES, AND CLOCKS.—E. J. DENT, 82, Strand, and 33, Cockapur-street, ratch and clock makes. By APPOINTMENT, to the Queen and his Royal Highness ranches, and clocks, is secured by three separate patents, respectively granted in 1830, 840, 1848. Silver lever watches, jewelled in four holes, 6 gs. each; in gold cases, from 2 to £10 extra. Gold horizontal wa chee, with gold disk, from 8 gs. to 12 gs. each, J. DENT'S PATENT DIPLIEDOSCOPE, or meridian instrument, is now ready for dolive; amphilets containing a description and directions for its use is, each, but to customers gratis.

NATIONAL LOAN FUND LIFE ASSURANCE SOCIETY.

Capital £500,000.—Empowered by Act of Parliament.

Is institution embraces important and substantial advantages with respect to Lift

is institution embraces important and substantial advantages with respect to Lift

is institution embraces in the policy of the premium paid (see

is also the option of selecting benefits, and the conversion of his Interests to meet

conveniences or recessity.

mences or necessity.

ce for terms of years are granted on the lowest possible rates.

DIVISION OF PROFITS.

rkable success and increasing prosperity of the society has enabled the dibe last annual investigation, to declare a fourth bonns, varying from 35 to on the premiums paid on each policy effected on the profit scale.

EXAMPLES.

Sun.	Prem.	Year.	Bonus added.	Boreus in Cash.	Permanent reduction of Promium.	Assured may Borrow.
£1000	<b>2</b> 0 3 4	1990	192 3 0 165 11 10 116 7 6	£109 0 11. 87 1 4 74 1 9 34 0 10 49 10 0	£16 0 4 13 10 2 11 3 1 7 18 10 7 10 4	£445 0 0 895 11 1 346 9 3 296 13 4 247 4 8

The division of profits is annual, and the next will be unsee in December of the present F. FERGUSON CAMROUX, Secretary.

EMONNIER, HAIR-WORKER to take and Member of the Academise de Pindustric, and who obtained a Silver and Platina Medal at the Exhibition, has just INVENTED several NEW DESIGNS, as Palm Trees, Wreaths, Knots, and Cyphers, which he executes with hair in its natural state, without using gum or which he executed by a mechanical process. mt. A variety of Trees executed by a mechanical process. No. 13, RUE DU COQ SAINT HONORE, PARIS.

No. 13, RUE DU COQ ALINY HONORE, PARIS.

IR JAMES MURRAY'S FLUID MAGNESIA.—Prepared under the immediate care of the inventor, and established for unwards of 30 years of the profession, for removing BILE, ACIDITIES, and INDIGESTION—restoring PPETITE, preserving a moderate state of the bowels, and dissolving uris acid in GRA-GIBL and GOUT; also as an easy remedy for SEA SICKNESS, and for the febrile affects incident to childhood it is invaluable.—On the value of magnesis, as a remedial agent, is unnecessary to enlarge ; but the fluid proparation of Sir James Murray is now the toost valued by the profession, as it entirely avoids the possibility of those dangerons convertions usually resulting from the use of the article in powder, and in the over-dosed quids of detected initiators.—Sold by the sole consignee, Mr. Balley, of North-street, olvernampton; and by all wholesale and retail druggists and medicine agents throught the British emptre, in bottles, is, 2s, 6d, 3s, 6d, 1l., and 21s. each.

N.B.—Be sure to ask for "Sir James Murray's Preparation," and to see that his name stamped on each label, in green ink, as follows:—"James Murray, Physician to the wind Lieutemant."

The Mineteenth Edition, price 2s. 6d.; free by post, 2s. 6d.

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ctors of those establishments, and which cannot be too strongly reproduces and made. The engravings that accompany the work are clear and explanatory; and written by a duly-qualified medical practitioner, will, doubtless, be the means of rmany a youth, as well as those of maturer age, from the various evil consequences ing from early indiscretions."—Magnet.

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explaining the various functions, escretions, and structures of the reproductive organs in health and disease; with instructions for private correspondence, cases, &c.

By J. L. CURITIS and C. O., Consulting Surgeons, T. Fitth-street, Soho-square, London, REVIEWS OF THE WORK:—" Manhood: a medical work. To the gay and thoughlies we trust this liftle work will serve as a beacen to warn them of the danger attendant upon the too rash indulgence of their passions, whilst to some it may serve as a monitor in the hour of temptation, and to the afflicted as a sure guide to health." Chronette, "We feel no heattation in saying, that there is no member of society by whom the book will not be found useful—whether such person hold the relation of a parent, a preceptor, or a setergyman."—Sus, Reening Paper. "Curtis on Manhood should be in the hands of youth and old age. It is a medical publication, ably written, and developes the treatment of a class of paintin maladies which has too long been the prey of the il-likerate and the designing." United Service Guester.

Fullshied by the authors, and may be had at their residence; soid also by Strange, 11, Fatermoster-row; Hannay, 03, Oxford-creet; Mann, 39, Cornhill, Loodon: A. Heywood, Oldman-street, Manchester:, Enhip, South Castle-street, Liverpool: Campbell, 146, Argyle-secet, Ollagow; Robhmon, 11, Greenside-servet, Ethough; and, in a sealed envelope, by all booksellers.—Meiers. Curtis and Co. are to be consulted daily at their residence, 80, 7, Friffie-street, Solio-square, London; and patients can have this work privately forwarded them, by initial or otherwise, to any part of the United Kingdom, direct from the sinthey residence; gr room any of the above agents, on remitting 2s. 6d. in postage stamps.

PAR SURPRISHED EXCELLENCE OF HOLLOWAY'S PILLS IN THE CURE OF INDUSTRIES.—Extract of a letter from Mr. Thomas Holland, Scaton-street, Liverpool, deted July 50, 1887:—"O Professor Holloway,—Sir; I had suffered hierarchy for many years from bad dispation, attended with sleepless nights, frightful dreams, want of apparite, and extreme debuilty. The best advice I obtained was of to avail. I was in this wretched state when I commenced taking your pills, which, in a few weeks, completely restored me to health. I feet quite a new smat—my appetite is good—I sleep well, and am expable of enduring great fatigue: these blessings I enjoy by taking your invaluable pills.—Sold by all draugusts, and at Prof. Holloway's establishment, 244, Strand, London.

IMPROVEMENTS IN THE VOLTAIC BATTERY.

On a Cine Venner of Statement of the Name Act or Growth Pararea, Sarreaux.

On a Cine Statement of the Name Philicophy on the Philicophy of action of Growth and Bussen's besidence of coccurred to make head and gain to sustainted the Chaptants of the frame besidence of coccurred to make and sangth to sustainted the Chaptants of the frame besidence of coccurred to make and sangth to sustainted the Chaptants of the Statement of th

ACCIDENTS.

Persmett Colliery, Brissley Hill.—J. Yates was killed by a fall of coal, while engaged in blasting with gunpowder, at Messra Philpotta and Plants.

Cordeley-Coppice Pi, West Brownich.—R. Davis was killed by falling into Captain Henniti's colliery.

Ball-Hay Colliery, West Brownich.—M. Milwood was killed at Messra.

Botteley and Tildesloy's.

West Brownich.—M. Milwood was killed at Messra.

Botteley and Tildesloy's.

West Brownich.—M. Milwood was killed at Messra.

Botteley and Tildesloy's.

West Brownich.—M. Milwood was killed at Messra.

Botteley and Tildesloy's.

West Brownich.—M. Milwood was killed at Messra.

It contains a Colliery.—On Tucsday last, as the workmen were proceeding to their work at Mr. Russell's, the necessary precautions being taken, one party was lowered safely in the skip; but on the second lot reaching about half way, an explosion of fire-damp took place, and they were speedily, and, as it fortunately happened, safely landed. So soon as a descent could be made without danger, the state of the poor fellows in the pit was secretained; when out of the four who went down, a boy, named Josiah Romsill, was found scorched to death, and two others so severely burned, that their lives are in danger, and the death of another is hourly anticipated.—Hirmingham Advertiser.

Colliery Accident in Derbyshire.—On Friday morning last, an accident happened to a man named Henry Howe, who was employed in the ceel-pits at Newbold. It appears that just as Howe had descended inte a pit, one of the men at the top were attaching two corves to the hook, which broke the spring, by which means both of them fell down the pit; and, before Howe had time to get out of the way, one of the corves unfortunately caught him on the right arm and broke it.—Darby Reporter.

Mining Accidents in Belgiusa.—It appears, from a recent official return, that, from 1843 to 1844, the number of accidents which occurred in the mines of Belgium was 775, of which 271 were from falling in of earth, stones, &c., 159 from different c

4

greatest numbers killed and injured were from the explosions of gas, and the falling in of earth—the former being 180 injured, 122 killed; the latter 156 injured, 134 killed.

Coal-Pit Accidents.—There is very little occasion for ex pressing surprise at the general indifference to public health, when there exists in this neighbourhood, and particularly in the mining districts, so manifest a carelessness, of the common monest precautions for the preservation of life. From time to time the public are started with the occurrence of some tremendous accidents, sweeping dozens of mean the territory, and rendering as many families desoiate. Sympathy is excited; precumbing an exposition of the preservation of life. From time to time the public are started with the occurrence of some tremendous accidents, sweeping dozens of mean time started with the occurrence of some tremendous accidents, we expected in the public are started with the occurrence of some tremendous accident of the control of the control

of those concerned, will render unuscessary.—Birminghom Journell.

Large Fall of Earth in a Railway Cutting.—On Sunday evening, several tons of earth fell on the Huddersfield and Manchester Railway, which is new making through Stallybridge, and completely filled a very large and deep shaft, which was being formed to enable the contractors to arch over the tunnel there. Owing to the cracking of the large balks of timber, the workmen had sufficient time to get out of the way, and no one was hurt. The accident to the shaft is attributed to a quicksand at that place. A large quantity of timber and some tools, &c., were buried.

IMPROVEMENTS IN GUN-COTTON.—Mr. Coathupe recently forwarded to the Chemical Society two specimens of gun-cotton, with a view to illustrate the greatly increased explosive effects that are to be derived from a subsequent

Chemical Society two specimens of gun-cotton, with a view to illustrate the greatly increased explosive effects that are to be derived from a subsequent immersion of the gun-cotton, when properly prepared in the ordinary way, in a saturated solution of chlorate of potash. "Having experimented with solutions of nitrate of ammonia, nitrate of potash, nitrate of socia, bichromate of the gun-cotton, when properly prepared in the ordinary way, in a saturated solution of chlorate of potash, che, for the purpose of increasing the explosive properties of this interesting substance, I can affirm that none of the results will bear the slightest comparison with those obtained from the solution of chlorate of potash, either in rapidity of ignition, or in intensity of flame. The process adopted for preparing the enclosed specimens was as follows—viz.: into a mixture of equal measures of strong nitrous acid, and of oil of vitroil, spec. grav. 1945, the cotton was immersed and stirred with a glass rod during about three minutes, it was then well washed in many waters and dried; a portion of it was then soaked for a few minutes in a saturated solution of chlorate of potash, well squeezed and dried."

Sulphureous Mineral. Water at Inntagel.—It may not be unimportant to gome of your readers, to know that there exists in Tintagel, in this county, a sulphureous mineral water. The spring issues close to the insulated rock in the cove on the east side of King Arthur's Island; and so great is the quantity of the sulphuretted hydrogen gas evolved, that its peculiar odour pervades the whole beach: indeed, it was this circumstance alone, which induced me to search for a sulphuretted spring. Unfortunately, this mineral water is only accessible at low tide; still consider it may be made of nility to the namerous invalids frequenting the neighbourhood of Tintagel.—J. Vacy Lyle: Launcessible at low tide; still consider it may be made of nility to the namerous invalids frequenting the neighbourhood of Tintagel.—J. Vacy Lyle:

Anythracite coa IMPROVEMENTS IN TRANSMITTING MOTIVE POWER.

The following announcement appeared in the Morning Post of yesterday:—
"Notice is hereby given, that Henry Pinkus, formerly of North-creecent, Bedfords gentlems, intends to apply by petition, under the fourth section of the status, 5th and of the several terms of sole using and vending his invention of 'as improved method of, or capparates for, communicating and transmitting, or extending, motive power, by means whereof carriages or vaggors may be propelled on radivays or common roads, and vessil and the other places there is morning that is to say, by letters patent bearing date the list day of June, 1834, for this part of the United Kingdom called Eagland, and the other places therein morning his invention of the United Kingdom called Eagland, and the other places therein morning his invention of the United Kingdom called Eagland, and the other places therein morning his morning his invention of the United Kingdom called Eagland, and the other places therein morning his cappacity of the sublimate the glass is discussed in the religion of his size Magiety for this part of the United Kingdom called Eagland, and the other places therein morning his morning

## Original Correspondence.

WATER-POWER v. STEAM-POWER.

Sir.—I presume, in looking into your valuable Journal of the 14th inst., that Mr. "Observer's" letter, headed "Water-Power v. Steam-Power," must be in reply to a letter from "Mr. Rambler through South Wales," which must have appeared in your paper of the former week, and which I have not seen nor heard of; but, as it relates to Frongoch Mine, of which I know something, and the manner of drainage of the Cardiganshire mines all my life, it brings me to the question of steam and water-power. That water-power, where it can be obtained to secure effectual working in winster and summer, is preferable, no one will attempt to deny; but the Frongoch Mine, with few, if any, exceptions, previous to the erection of steam-power, has always been retarded, in winter by frost, or in summer by drought, not for the want of capacity in the reservoir, for they have remained for years unfilled, but for the want of sufficient area in the contributing ground connected with them. To explain this more fully, I will give you some details and calculations, stretching as much as possible in favour of the water-power! The contributing ground; I will, therefore, call equal to a square mile, and the fall of rain, as an average for 12 months, 60 in., both of which (area and rain fall) I have over estimated, deducting 20 in. for evaporation and absorption, leaving 40 in. available to the reservoir. Now, admitting the reservoirs to be of sufficient capacity, it will give a daily supply of, rather less than, 12-horse power, on a 48-ft. wheel, which I will take as the diameter of Frongoch pumping-wheel, and which, I suppose, to be pumping 120 or 140 yards, with 10 or 11-inch pumps. The further question that will arise, may be answered by asking, if it has every additional yard in depth, require additional power for drainage? Who is to foresee the extent of power that will be necessary for the effectual working of this mine in years to come, at 200 or even 100 yards deeper than its present bottom?—saying nothing of the

#### COLLIERY WORKINGS-FOREST OF DEAN.

COLLIERY WORKINGS—FOREST OF DEAN.

SIR,—Possessing a coal-pit in the Forest of Dean, about 70 yards deep, and having 100 yards breadth of coal, water free, lying on the deep side of it, with an inclination of one in six, I should feel very grateful to any of your scientific correspondents who would have the goodness to advise a young collier of the best and most economic mode of getting or raising the same to the pit bottom?

James Grindall, jun.

Darkhill, near Coleford, Aug. 18.

#### ATMOSPHERIC RAILWAY SYSTEM—EXPENSES OF WORKING.

Sin,—I have, in two former letters, directed your attention to the advantages of Messrs. Clarke and Varley's elastic tube principle for railways, which is daily at work at Blackwall. I then stated that water-power might be found to work atmospheric railways, in some districts, with great economy. I beg, at present, to call your attention to the economy of the system, when steam-power is employed:—

system, when steam-power is employed:—
We will suppose a line 4 miles long, with an engine at each end, of 100-horse power this will work an 18-inch tube, drawing trains of 90 tons, at 30 miles per hour. The trait of start from each end every half-hour—running 32 trains each way per day. The coals (per horse-power) consumed per hour is 3 lbs. (engineers will guarantoe construct enginees that will consume less coals per horse-power than I have here states. The coals consumed during the stoppages of the engines, 30 per cent. of the above phorse-power.

The coast consumed string in the consumed by each engine while working; and as each consumed by each engine station is employed for 16 minutes each train, the quantity of coal usefully burni will be, per day 2400 lbs.

Add waste, while standing, 30 per cent. 720 ,

Total per day ......£6 2 6

50 tons mul. by 64 trains, total tonnage carried \_\_\_\_\_\_ 015 of a penny, or less than half a far thing per ton per mile.

46 2a. 6d.

44 trains mul. by 4 miles — 5 d., per ton per mile, supposing that 10 persons weigh a ton, after deducting the weight of carriage.

500 persons per train — 5114 of a penny each person; or 83 persons carried one mile for 1d., at 30 miles per hour.

London 4 trains — 4 trains — 5 d. Tr

THE MENAI TUNNEL BRIDGE.

RESPECTED FRIEND,—I observe a letter, in your last Journal, signed "Civil Engineer," wherein he makes mention of my having made a machine, by which to test the strength of the proposed tunnel. I am at a loss to conceive upon what data he makes that statement; the machine I made was for the purpose of showing the principle upon which all bridges are founded, and had no special reference to the proposed data. I admit it; but I never disputed the capabilities of making a tunnel sufficiently strong for the purpose intended, provided a sufficient quantity of material be employed; and I have no doubt, if 1200 tons of iron be used in each of the four proposed tubes, that if properly disposed, a safe structure may be made on that plan. But what surprises me much is, that directors of railways should be so reckless of their funds, as to allow engineers to make such costly experiments, when the objects sought might be attained at less than one-fourth of the cost, offering a greater degree of strength, and, consequently, greater positive security, which is capable of being demonstrated beyond the shadow of a doubt; it, therefore, appears to me to be paying much too dear for a whistle. "Civil Engineer's" conclusion, that R. Stephenson was not indebted to J. De la Haye, for the idea of the proposed tube, appears to me to be very erroneous. With respect to his observations relative to General Sir C. Pasley—surely no one but a "man in the moon," or under its influence, could have imagined that the general meant, that the tides would have any effect upon the tubes when fixed in their intended position; it being quite clear that he meant his observations to apply to it during the progress of rising them, by means of the admitted, complicated, and, it may be presumed, very expensive machinery.

Bristol, 8 no. 17.

THE MENAI TUNNEL BRIDGE.

THE MENAI TUNNEL BRIDGE.

We have received a very long letter from Mr. De la Haye, in answer to "Civil Engineer," in last week's Journal. We have not room for the communication entire, but, in justice to the writer, insert the following portion:

—"Permit me to explain a few words in answer to "Civil Engineer," who, in his letter, published in the last Number of the Mining Journal, denies that my invention, for constructing iron tunnels, has anything in common with the Menai Straits scheme. He asks, whether I had proposed to employ the tunnel in its present position? I have repeatedly stated, that this modification belongs to Mr. G. Stephenson; but I claim wrought-iron railway tunnels as my invention; and I deny that any individual has a right to modify so novel and gigantic a plan, for a particular locality, without acknowledging the original."

PROGRESS OF INVENTION—PAST, PRESENT, AND FUTURE.

PROGRESS OF INVENTION—PAST, PRESENT, AND FUTURE.

SIR,—Whilst our frond, John Da La Haye, is amusing the public with his schemes, at least actury in advance of the age, and becoming the exemplar of the whitering actually remarked to the age, and becoming the exemplar of the whitering actually terms them), who, on account of their emisent engineer (as he faceliously terms them), who, on account of their emisent engineer (as he faceliously terms them), who, on account of their emisent engineer (as he faceliously terms them), who, on account of their emisent engineer (as he faceliously terms them), who, on account of their emisent engineer (as he faceliously terms them), who, on account of their emisent engineer (as he faceliously terms them), who, on account of the present engineer (as he faceliously terms them), and the present engineer (as he faceliously terms them), and the present engineer (as he faceliously the faceliously terms them), and the present engineer (as he faceliously the faceliously terms the faceliously terms them the faceliously terms them the faceliously terms the f

the hot sunbeams an tribuga and stress and derogatory, I shall conclude with your humble ricipate the thoughts of your readers, are derogatory, I shall conclude with your humble of the contract of the subject induces me to trespass upon your columns, and upon my time, to fulfil the promise given in a former Number of the Journal. I have littlefred delayed entering upon it, in accordance with the Journal, and upon my time, to fulfil the promise given in a former Number of the Journal, in order that the discussion upon ventilation, which has lately appeared in the Journal, singly be brought to a close, considering that, probably, from the information which was naturally expected to be promulgated during that discussion, they might be rendered unnecessary, and also not wished discussion. I have make a subject to the close of the discussion of the discussion of the discussion of the discussion. I have make the system, which in one collection does a spplicable in the ventilation of mines—that the system, which in one collection does a spplicable in the ventilation of mines—that the system, which in one collection of the succeeding communications, will, therefore, consist of a general inquiry into the nature and qualities of a subject to several unit be mine, and to their origin and effects. These gases, although a subject to several unit be mine, and their origin and effects and back-damp. These two may be styled the demons of the mine, and obsiched-damp or choke-damp. These two may be styled the demons of the mine, and to lately periled. The first, or atmospheric air, will not require a lengthened notice—ti is a substance with process of the subject to a sub

tion of the coal removes its source; but that extraction in the former instance, only liberates it, and, by such liberation, completely removes all the modes or auxiliaries of ventilation which may have been adopted in the working. Much has been said and written about airing the waste, fallen, goaf, or gob, as it may be locally termed; and much that has been said and written, has been in an intemperate, capricious, and imperious tone. It is a subject upon which the mere theorist cannot enter. The practical collier sees difficulties of a most formidable nature, and difficulties which could not prevent the interest of any other party.

I will not, at leastfast this time, occupy your columns by entering upon this, nor by showing the infeasibility of the various plans which have, from time to time, been submitted; but will content myself by merely advising the mine agents to always, and under every circumstance, keep a good free air road round the confines of the goaf; to let a strong current continually traverse that road, and, upon no loconsideration, and for reasons which I shall adduce in my succeeding communications, to allow that current, after having passed the goaf, to travel the workings as auxiliary to the vonitiation. Faults are also found to give off this gas in great quantities, and a slight fissure in the strate may serve, upon being demaded of its covering, to fill a mine to the point of explosion, which might previously have been considered perfectly asic; and, as under these circumstances, there is often a laxity of attention, such an occurrence is fatally destructive, and, most probably, to this cause may be referred those casualities, which appear so inexplicable, and contradictory to the principles of good working.

Carbonic acid gas, or black damp, as stated above, is inexpable of supporting either combustion or life—its specific gravity is considerably more than that of fre-damp, being about half as heavy again as the atmosphere. It is the product of combustion, and alla open the vacuum formed

#### STEPHENSON ON DOUBLE GAUGE RAILWAYS.

phenomena of ventilation; and, lastly, to other such mines and suggestions, he may present themselves for the guidance of the mineral agenta.—F. Barr: Newport, August 17.

STEPHENSON ON DOUBLE GAUGE RAILWAYS.

The Act of Parliament obtained by the Great Western Company for the Oxford and Rugby Railway, and also between Worcester and Wolverhampton, on the Oxford, Worcester, and Wolverhampton Railway, requiring the introduction of a narrow gauge line, Mr. Brunel reported to the directors, recommending the addition of a third rail between each separate broad gauge line—the outer rail of each to be common to both gauges. In this report, Mr. Brunel treats the matter with the greatest non-chalance; and assures his directors that the thing is perfectly correct, and there is no more complexity or difficulty about a united gauge line than there would be on either separately. To this, Mr. R. Stephenson, M.P. has just published a reply,\* in which he goes a little deeper into the real merits and probable results of the union, and raises a few starlling objections, which, on examination, will be found not to be fictitious. Having admitted the possibility of laying an intermediate rail, he shows, in the first place, notwithstanding Mr. Brunel's opinion to the contrary, that crossings between main lines are very often necessary. On the London and Birmingham (112 miles) there are no less than 5s; and on the northern lines this number is vastly increased. At the Slough station alone, on the Great Western, there are two crossings between the main lines. He proceeds to describe that, according to Mr. Brunel's own drawings, at every crossing there must be on one plan two additional pairs of overcrossing points, four additional gaps, and three additional meeting points. On another plan, two additional gaps, and three additional meeting points. On another plan, two additional receives and the subject comes to the conclusion, that—1. The mixed gauge system increases the complication so much, as to be inadmissable; and 2. That, not wi

immediately connected with the lines affected by the threatened abortion.

Mr. Robert Stephenson, M.P., on Protection to Native Industry.

Mr. Stephenson, the engineer, now the Member of Parliament for Whitby, in this speech to the electors, thus spoke upon the question of protection to native industry:—I feel the effects of the good/times and the bad times. I feel also the effects produced by the changes in the laws, not only in this country, but abroad. You know that I am a large manifecturer of locomotive engines. Some 8 or 10 years ago 1 enjoyed almost a continental monopoly of the supply of locomotive engines to Germany, France, and Russia. They we mable to produce the same article at the cost I did therefore, they bought them out of the market. But they soon found the injurious effect of the competition. Not that competition is injurious; on the contrary, it is of advantage to any man. I beg your attention to this case. I held the monopoly. They had no change with me. Their government saw that the industry of the people was shackled, although they were able to by the article of me cheaper than they could produce it themselves. They might safely yell of a rich early the countries—France, Germany, and also Belgium—immediately resorted to protection laws. They laid on a duty amounting to something that made the cost equal to receiving my engines, or making their own. The result of this was, that new factories were established, new industries developed, iron furnaces starred up in every direction, and a new creation of wealth took place, instead of sending it into my pocket. Now, If any body had a right to complain, or to be a free trader, I certainly had. But, on the contrary, after visiting these countries, some few years after these protection laws are necessary to feater and the cost it can be protection laws are necessary to feater new businesses and new manufactures were created, and, instead of sending their money out of Germany into England, they produced engines to my injury but to their own benefit;





REED'S RAILWAY CHAIRS AND RAILS.

IMPROVEMENT IN these CHAIRS consists in their affording to the refle IMPROVEMENT in these CHAIRS consists in their affording to the rail a greater, and thereby preventing the defisction of the rail. The SLEEPER CHAIR (as in the above figures) gives 10, and the BLOCK CHAIR 22, inches support. The hairs are economical substitutes for the stone block, and possess the advantage of more readily laid down on the line—are less expensive—require no renewal, and bear the value of metal. In travelling over these chairs, the origine is less liable on and sequing that realities readily. to jump, and sequire that resilient motion, which is so dangerous and objectionable.

Ratis laid down on these chairs carry greater weight than those placed on the chairs now in use, and the rails, consequently, may be of less weight. The improvement in the rails consists in their overlapping at the points of junction, thereby preventing the rails drawing saunder or working loose, and springing up at the ends. The chairs and rails may be seen at the Geometrical Railway Office, No. 39, Foultry, London.



Lifting Jacks,

is respectfully requested to the supe riority of those annexed, over the hitherto in use.

\* The Double Gauge: Observal

#### Mining Correspondence. ENGLISH MINES.

ABERGWESSIN MINES.—Since my last report, we have driven a level south from the engine-shaft in the 20 fm. level, and have cross-cut two parallel lodes—the Comet and Couch's lodes: we expected to have cut the Comet lode in its underlay, at from 3 to 4 fms. from the shaft, but found it 7 fms., it having changed its oblique for a more vertical position in depth; we also found this great lode (hitherto 30 ft. thick) reduced in size to from 12 to 15 ft. thick, and carrying a fine flookan, of 2 to 3 ft. thick, on-its foot-wall, shickly interspersed with lead, white prian, and quartz. Here the lode is composed of the most beautiful matrix. for lead, and is dredged throughout with friable ore: in fact, this lode is all we can whah, although not equal to the solid course of ore, 12 to 14 ft. thick, which this same vein has yielded in the adjoining sett, at the 'opposite side of the mountain—Lord Cawdor's Mine. Uppaths lode we have opened about 20 fms., and have saved the chief part of the broken vein for cleaning; the present end progressing into the mountain, is in candied spar, prian, and lead, the whole being good saving work. In cross-cutting Couch's lode in this level, we find it fast approaching in its underlay to the Comet vein, and, from its present obliquity, will form a junction with that vein at 3 to 4 fms. under the 20 fm. level; this lode is also reduced in size, but retains its rish characteristics: we, therefore, have resumed sinking to the 30 fm. level. Our shaft is now 4 to 5 fms under the 20 fm. level; and the remainder of the shaft I have set at 13t, per fm, to the 30 fm. level under adit, about the yield of which there can be but one opinion. Some of the shareholders having remarked that we progressed quietly, and enquired how near we are to paying dividends, my answer was, "Judge for yourselves—I only marrate facts for your guidance, and wish every shareholder would inspect, or cause an inspection, of the works for themselves." I always stated, that I felt confident these mines would yield dividends

respective summita.—P. P. Couch: August 9.

BARRISTOWN.—In the 18 fm. level, west end, the main lode has slightly improved for the last few fms., but at present it is not producing so much ore —worth about 10t. per fm.; the rise behind this end is worth about 12t. per fm.; the lode in the winze in the bottom of the 18 fm. level, behind the 18 fm. level end, is worth about 8t per fm. The 12 fm. level, west end, on middle lode, is worth about 8t per fm. The western stope, on middle lode, is worth about 8t to 10t. per fm. At Nangle's shaft, the water has fallen about 4 fms., and we hope soon to be able to commence working it: the end will unwater about 9 ft. desper than the present bottom of Nangle's shaft,—Thos. Angove; George Whyte: August 13.

BEDFORD UNITED —At Wheal Marguis the superpose in the seatoned.

GEORGE WRITE: August 13.

BEDFORD UNITED.—At Wheal Marquis, the sumpmen, in the past week, have been engaged cutting the plat, previous to commencing driving the 90 fm. level; the lode in the sump-winze still remains worth 90? per fm.; in the western winze there has been no lode taken down. The lode in the 80 fm. level east is 3½ ft. wide, and worth 12½ per fm.; the stopes, in the back of this level, have been set on tribute; the lede therein is worth from 13½ to 20½ per fm. The lode in the 70 fm. level east is a little improved, being 2 ft. wide, and good work. There is no alteration in the 58 fm. level east. At Liscombe, the lode in the add level, and rise in this level, is without alteration. The south engine-shaft is auspended for the present, in consequence of the falling off of the surface water, and the sumpnien are put to drive east from the plat; the lode in the end is 3 ft. wide, and promising. In the addit level east the lode is 2 ft. wide, producing some stones of ore.—J. Phillips: August 17.

COATLITHE HILLS.—The vein continues to improve as it is explored.

water, and the sumpnion are put to drive east from the plat; the lode in the end is 3 ft. wide, and promising. In the adit level east the lode is 2 ft. wide, producing some stones of ore.—J. PHILLIS: August 17.

COATLITHE HILLS.—The vein continues to improve as it is explored eastward; and when the junction of this and the main vein is cut (which is 30 fms. further eastward), and have got more weight of ground on, there is no doubt but that the adventurers will be well remunerated for their outlay. The level east from A shaft is so wet, as to delay the working very materially, until the horse level is holed into the shaft, which is 9 fms. from the end; this will occupy two months in diving. The appearance of the vein is rather more promising, and has turned out some very large stones of ore within the last day or two. The level east from A shaft has been driven about 3 ft. during this week, and the horse level a fathom.—J. M. PAULL: August 14.

COOK'S KITCHEN.—At Chapple's lode, in the engine-shaft, which is now down 7½ fms. under the 180 fm. level, there is a fine lode, producing a little tim. In the 180 fm. level east, the part of the lode which we are carrying is about 4 ft. wide, and worth 64 per fm.; in the 180 fm. level west, the part of the lode which we are driving; is 4ft. wide, and worth 77. per fm. In the 170 fm. level east, the part of the lode which we are driving; is 36 feet wide, and worth 77. per fm. In the 160 fm. level west, the part of the lode on which we are driving; is 36 feet wide, and worth 77. per fm. In the 160 fm. level west, the part of the lode on which we are driving; is 36 feet wide, and worth 77. per fm. In the 160 fm. level west, the part of the lode on which we are driving; is 61 ft. wide, and worth 257 per fm.; as there is a great part of the lode standing to the north here, we shall now drive in that direction, for the purpose of ascertaining its size and quality. The 92 fm. level west, on Eudy's lode, is suspended for the present, the men being placed in the 180 fm. level we

quantity of tim.—J. Vivian: August 16.

COOMBE TIN.—I send you a few lines, to inform you that I have been over to Exeter, and seen Mr. K., on the subject of the deeds, and that everything is perfectly right concerning them. He has pronounced that they shall be ready, and that we shall have them within a fortinght's time. This morning have cleared up the bottom of the level; we have broken some large stones of tim.—the lede is very large, and we have discovered some very large rocks of tim.—Marrin Dunn: August 13.

fin.—Martin Donn: August 16.

CUBERT SILVER-LEAD.—After my going through this mine to-day, 1 ee nothing different from what I reported last week; the appearances are much be same, both as respects the tribute and tutwork department. We sampled, n Tuesday last (computed), 60 tons of rich silver-lead ore.—R. Rows.

see nothing different from what I reported last week; the appearances are much the same, both as respects the tribute and tutwork department. We sampled, on Tuesday last (computed), 60 tons of rich silver-lead ore.—R. Rowz.

DEAN PRIOR AND BUCKFASTLEIGH.—In the deep adit, we have just cut through the main part of the lode to the north; it has a more promising appearance than when cut through 13 fms. to the east, or rather 13 fms. behind the present end, and is inclining towards the south part or limb of the lode, which is a favourable indication—for I find generally, where these lodes have formed a junction thus, the lode has been productive for ore. In the 10 fm. level, driving west, the south part of the lode is about 9 in. big, composed chiefly of spar. In the 20, under adit, or bottom level, the lode is of a very promising character, composed of spar, prian, and mundle, with a small string of flockan; the strata is congenial for ore, and is improved for driving—present price for driving 31 per fm. The lode in the pitch, in the back of the 10 fm. level, it suffices may be the server of the men are working with spirit, and I think they will get wages. I have set a pitch in the bottom of the 10 fm. level, at 12a in 11, by two men, which will commence working this day. The house for the grinder is covered in, ready for fixing the castings. I have just received a letter from the ironfounder, stating that the whole of the castings will be ready for the grinder by Wednesday next. We are getting on with the materials for the water-wheel, and shall be ready to stop the engine whenever we can be supplied with the cylinder socket pieces for the axle and arms of the water-wheel: we shall make all the progress we can, in order to carry the work into effect.—August 16.——In answer to your inquiries as to the progress we are making with the very public of the with full force, so as to get her to work without loss of time. I beg to say, your instructions that no time should be lost shall be strictly attended to; indeed, I a

DEVON AND COURTENAY CONSOLS.—In the 30 fm. level, west from DEVON AND COURTENAY CONSOLS.—In the 80 fm. level, west from the sugine-shaft, we have intersected a cross-course—we are now driving upon it, for the purpose of discovering the western part of the lode; in the end, driving cost, in this same level, the lode is 25 ft. wide, composed of spar, peach, and mundle, mixed with killas and spots of copper ore. In the deep adit level, on the senth lode, the lode has very much improved since my isast report, it being now 20 in. wide, composed of a white soft spar, with flookan, and good stones of lead ore, in favourable ground. In the shallow adit level, on the north lode, the lode is 2½ ft. wide, composed of flookan, spar, and can, with small branches of lead and copper ore. The men in the engine-shaft are progressing as fast as peasible towards the next level; and, although the water has not increased this last week, it is become necessary to have a small lift to sink with.

—N. SECCOMPES Aug. 17. DRAKE WALLS.—No alteration in Brenton's engine-shaft since my last. The sumpmen are preparing to fix a plunger-lift in the 50 fm. level, after which they will cominence sinking; in the stopes, east of the above shaft, there is no alteration—good tin ground. At the machine-shaft the stopes are looking well. At the footway-shaft the stopes are tinny, not rich. We have four men at the eastern part of the mine, near the Tamar river; from its bearing and character, we think it to be the Wheal Russell lode—it is a south underlay, and of some promise. We shall continue costening, to cut the Drake Walls branches on lodes. We sampled yesterday, computed 17½ tons of tin; it is now at Plymouth, on board for Truro. We are short in quantity promised, in consequence of the dry season, not having sufficient water for dressing.—Richard Williams: Angust 14.

DYFNGWM.—We have made a capital discovery in the 22 fm. level east; in driving east from the winzs, lately communicated to the 16 fm. level, we took the south side of the lode with us—the lode in this place being about 8 ft. wide—gessing some indications of lead in the south side, I set the men to take down the whole of the lode, from the winze to the end, which is about 5 ft.; according to the present indications, the new discovery is worth 104, per fathom for lead. I shall be able to give a more particular account in a few days. This is sufficient to show the necessity of sinking deeper, as the lead is all leading very strong under the 22 fm. level.—J. REXNOLDS: Aug. 16.

EAST CROWNDALE.—The ground in our engine-shaft is still unfavour-able for sinking: we have suffice.

lead is all leading very strong under the 22 fm. level.—J. Rexnold: Aug. 16.

EAST CROWNDALE.—The ground in our engine-shaft is still unfavourable for sinking; we have sunk, in the past week, 6 ft. I am glad to state, that the new north lode, mentioned in my last report, is much improved in appearance, and is now upwards of 2 ft. wide, composed of peach, mundid, and excellent stones of copper ore, and evidently will continue to increase in size as it goes down. I hope, in my next, to be able to say we have got a regular course of ore; and I confidently expect, when we get to the 50 fm level, we shall have large returns from this and also from the main lode. At the Rix Hill adit level the ground still continues just the same as when last reported on.—S. Paull.: Aug. 15.

EAST TAMAR CONSOLS.—Harrison's shaft is sunk 7 ft. under the 54 fm.

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EAST TAMAR CONSOLS.—Harrison's shaft is sunk 7 ft. under the 54 fm. level—the lode in the shaft is 2 ft. wide.—Huor-spar and ore, a very kindly lode; the 54 north is 20 m. wide.—work of a coarse quality; the lode in the 46 north is 18 in. wide.—fuor-spar and silver-lead ore; the lode in the 46 south is 14 in. wide.—capel and ore. The lode in the 88 south is 15 in. wide.—work of a good quality. At Charlotte's, the lode in the 11 fm, level is 20 in. wide.—fuor-spar and ore, a very kindly lode; the pitches are looking just the same as last reported. The house is up, and ready for the steam-whim; and I hope Mr. West will soon great in the machinery, as it will be a great saving in our future course. We sampled on Wednesday last, computed 50 tons of silver-lead ore.—B. Rounse: August 17.

GREAT MICHELL CONSOLS.—In the 35 fm. level, both east and west of the engine-shaft, the lode is without any important alteration—still producing some saving work.—T. Ruchards: August 17.

GREAT WHEAL MARTHA.—Thomas's shaft has been sunk to the depth of 25 fma. 1 n. below the surface, or 20 fms. under the adit; at the depth of 10 fms. a cross-cut has been driven south 5 fms., at which point the lode was intersected, and a level driven east on its course about 55 fms. In consequence of impure air, I was not able to examine the character of the lode was intersected, and a level driven east from 4 to 6 ft. wide, composed of capel and mundic, with a small quantity of copper ore intermixed. A level has also been driven west on the course of the lode about 100 fms. In consequence of small crashed ground, I was not able to examine the character of the lode in the hode to the from 4 to 8 ft. wide, composed of capel a

the shaft being sunk to a much greater depth.—James Secombe: August 9. GREAT WHEAL MARTHA.—In the 40 fm. level west we are now carrying 5 ft. of the north part of the lode, which is composed of capel, mundic, and spar, with spots of ore; the lode in the eastern end is still divided by the horse of killas; we are carrying the south part, being 5 ft. big, 2 ft. of which is composed of mundic and spar, with copper intermixed, and the remaining part capel, with spots of ore; we have also on the north part of this a branch of white iron, about 2 in. big, spotted with lead, and very much of the same appearance as in the 10 and 20 fm. levels, where we had the mundic and copper; this end has now a more favourable indication than I have seen it present since we first commenced driving. We still keep the water nearly to the 70 (old mine), although the top water has greatly fallen off. Mr. Thomas and Mr. Johnson were here on Monday last, and the latter underground.—T. Pe-MALUNA: August 14.

GUNNIS LAKE.—At Chilsworthy, the lode in the 25 fm. level, east a rest of Bailey's shaft, is without alteration. We continue to drive north the 12 fm. level west.—W. RICHARDS: August 17.

he 12 fm. level west.—W. Richards: August 17.

GWINEAR CONSOLS.—We commenced rising in the ore ground on Wednesday last—up at this time, 2½ fms. of ore, about 3 ft. wide, and 1 think of setter quality than we have had it; this is on the north part of the lode. We have also risen 2 fms. above the slide, on the south part of the lode, which is similar to the 37 tons parcel sold this week—ore, mundle, and gossan, saving work, bout 18 in. wide. We are preparing to drive cast of Barrett's shaft, on Haywood's ode, and shall commence driving the early part next week. We have an uprovement driving eat on Tredimnick's fode; the lode is now more than it. wide—all saving work for tin. It is not fairly tested yet; but I think is rorth 2s. 6d. the sack of 12 gallons.— HUGH STEPHENS: Aug. 14.

HAWKMOOR.—The lode in the 15 fm. level, cast of Hitchen's shaft, is

worth 2s. 6d. the sack of 12 gallons.—HUGH STEPHENS: Aug. 14.

HAWKMOOR.—The lode in the 15 fm. level, cast of Hitchen's shaft, is about 2½ ft. wide, composed of capel, mundic, and spar, with good stones of the occasionally.—P. RICHARDS: August 17.

HEIGNSTON DOWN CONSOLS.—The lode in Bailey's engine-shaft is fively wide, composed of gossan, spar, and tim—saving work. In the 20 fm. evel east, the-lode is 4 ft. wide, producing saving work, and very promising; here has been no lode taken down in this level west. The ground in Buddle's did is favourable.—W. RICHARDS: August 17.

HERODSSCOT.—The 62 for level casts is contraded a level of the contraded of the contra

HERODSFOOT.—The 62 fm. level north is extended about 40 fms. from haft; the lode in the end is 1 ft. wide, worth 15t per fm; this level is exceeded south about 36 fms. from shaft, where the lode is expended south about 36 fms. from shaft, where the lode is expended south about 36 fms. from shaft, where the lode is expended south about 36 fms. from shaft, where the lode is expended south about 36 fms. from shaft, where the lode is expended south about 36 fms. from the shaft was shaft about 36 fms. from the shaft was shaft where the shaft was shaft was shaft where the shaft was shaft where the shaft was shaft w shaft; the lode in the end is 1 ft. wide, worth 15L per fm; this level is extended south about 36 fms. from shaft, where the lode is small and poor at present. The 72 south is about 40 fms. from shaft—lode 18 in. wide, worth 22L per fm; there is a pitch working behind this end at 35s. per ton, and men getting fair wages. The end north, in this level, is extended 35 fms.—lode 1ft. wide, worth 6L per fm;; the two pitches working in the back, behind this end, are looking well. The 82 fm. level south is driven 5 fms.—lode from 2 to 3 ft. wide, worth, on an average, 20L per fm.; in the end it is 1 ft. 6 in. wide, worth half a ton fur lead per fm; the end north is driven 4 fms.—lode cut through about 2 fms. behind end, worth 71 per fm. The mine, on the whole, is looking well, and would pay dividends ittinediately, if the work could be got to surface; but the drawing-machine has not power enough, and is wanted for a crusher. The captain informs me (which I should think is correct), a 85-fx-water-wheel can be erected, with a good stream of water, and I would advise your doing this immediately. I find the ore ground is now about 80 fms. long, and good going north and south; if this continue (which is at present likely), I have no doubt of the mine paying large dividends.

HERODSCOMBE.—The addit level is driven south 28 fms. from the shaft; the lode in the end is promising—2 ft. wide, composed of gossan, spar, capel, and flookan, with good etones of lead; this level is extended north about 40 fms.; in the last 4 fms driven the lode is disordered, in consequence of a slide—but I have no doubt, in driving further to hill, it will get in settled ground, and probably make ove; from the cross-cut, to within 10 fms. of the end, most of the back that will pay for working is taken away; the lode in the stopes, about 6 fms. behind the end, is 2 ft. 6 in. wide, producing ore that will pay expenses, but not rech, the lode throughout the level is of nucla the same characters. Some men lawe been stoping the bottom of this level about

15 fms. behind end 1 also, bottom south of cross-cut—but in consequence, of the water, they cannot go more than about 47t. John 2. This is abandoned for the time, here the lode is 2 ft. wise, fewtoning good stones of ors—but 2 cannot find it is much better than the back. From the nature of the lote, is shall expect in the next level a course of over, this will be proved also about two months.

HOLMEUSH.—The ground is the diagonal shaft, shaking below the 120 fm., course, is 20 in, wide, composed of capel, numbic, killias, and stones of over. We are just now'in a position to columnone sinking the winze below the 110 fm level—baving, during this past week, fixed dams, tackle, &c., for that purposes of the property of the lote in the rise, above the 110 fm; lovel—south, is 2 ft. wide, composed of finer pass and lead, worth 100; per fm, and promising a further improvement; we are appearantly gatting into the neighbourhood, where we may reasonably expect to mest with a more productive like the about the shadow this level, which are yielding a fair quantity of lead, especially one of them, which are yielding a fair quantity of lead, especially one of them, which are yielding a fair quantity of lead, especially one of them, level, seat of the shaft, is not without copper. We have duries on the cross-cut towards Brown's that about 5 ft. since I wrote last.—J. Stratout.

KIRKCUDBRIGHTSRIKE.—Stewart's shaft, in course of sinking, is 3/2 fm level, seat of the shaft, is not without copper. We have duries on the cross-cut towards Brown's that about 5 ft. since I wrote last.—J. Stratout.

KIRKCUDBRIGHTSRIKE.—Stewart's shaft, in course of sinking, is 3/2 fm level, and sta day or two), the lead having extended bott his evel and also become satisf for sinking. The lode in the 90 fm. end west is 4 ft. wide, and greatly increased the state of the stat

SOUTH TAMAR UNITED.—The water is forked 5 mis. under the 50 fm. level. We are preparing to drop 6 fms. to-day, which I hope we shall anceced in doing. The men in the adit are getting on clearing and securing very satisfactorily.—B. Romiss: August 17.

SOUTH WHEAL MARIA.—Since the last meeting, the cross-cut north in the 20 fm. level, has been driven 14 fms., and we calculate there is about 16 fms. more to drive, to interact the next lode north, an which a shalt has been anuk 4 fms. on its course, opposite the cross-cut, underlaying north about 6 in. in a fm; the lode varying in size from 18 in. to 5 ft., composed of mundic, spar, and gossan, with spots of yellow ore and tin—I have great confidency, from its appearance in the back, which has been sen for a great fength; that it will be found productive in depth: 7 fathoms from the shaft, we discovered a lode 18 in. big, without any underlay, composed of mundic, spar, &c., with pretty much yellow ore in the capel; and about 9 ft. further north, we intersected, it would appear, another lode, from 18 in. to 2 ft. big, underlaying towards the east lode about 1 ft. in a fm., composed of spar, mundie, &c., with very strong yellow ore in the capel. These lodes; it appears, will come together by sinking the engine-shaft 10 fms. deeper, where it is more than probable we shall find them productive. The south cross-cut is driven 1 fgm. underlaying towards the contract of the source of the contract of the con

WEST WHEAL JEWEL.—In the rise in the back of the 70 fm. level, west of Hodges's cross-course, on Wheal Jewel lode, the lode is not taken down in the past west rises less month, 2 fms. 6 in. In the 30 fm. level, west of Quarry shaft, on Tolecarne tin lede, the lode is 15 in, wide, worth 5 per fm.—driven last month, 3 fms. 4 ft. In the 12 fm. level, west of Quarry shaft, on same lede, the lode is 16 in. wide, worth 30 per fm.—driven last month, 5 fms. 2 ft.; in the stopes, east of Prov's winze, in the bottom of the adit, on the same lode, the lode is 2 ft. wide, worth 20 per fm.—stoped last month, 6 fms. The sumpmen driving the 100 fm. level west, on Wheal Jewel lode, drove last month 1 fm. 1 ft. The stopes, east of Quarry shaft, in the bottom of the 12 fm. level, on Tolearne tin lode, is stoped 6 fms. 2 ft.; the stopes cast of Quarry shaft, on Tolearne tin lode, is stoped 16 fms. 2 ft.; in the back of the 12 fm. level, on the same lode, is stoped last month 7 fms. 2 ft.; in the adit end, west of Quarry shaft, on Tolearne tin lode, the lode is worth 6 lper fm.—driven last month 2 fms. 1 ft.—R. Jours; T. Bray: Ang. 16.

WEST WHEAL MARIA.—The lode in the 38 fm. level, west of the eastern shaft, is much the same as last reported, 3 ft. wide, producing good stones of ore; the lode in the western engine-shaft is about 3 ft. wide, with spots of ore in places. In the 54 fm. level, sast of this shaft, the lode is about 18 in. wide, composed principally of ore; in the cross-cut south, in this level, there is no important alteration.—T. Rodde: Ang. 17.

WHEAL ADAMS.—You will perceive, by the setting-report, which accompance this, that we have resamed visings in the head of the 50 methods and the same and the same visings in the head of the 50.

in place. In the 54 fm. level, east of this shaft, the lode is about 18 in, wide, composed principally of ore; in the cross-cut south, in this level, there is no important alteration.—T. Rodda: Aug. 17.

WHEAL ADAMS.—You will perceive, by the setting-report, which accompanies this, that we have resounced rising in the back of the 50, on the western lode, and have commenced another rise in the same level to reach the deposit of blende, the richest part of which is about 5 fms. above the back of the level. The lode in the winner, sinking in the 40 fm. level, is 8 ft, wide, containing stones and spots of lead ore throughout; it has not yet produced much ore, but the indications are good, and the lode is evidently improving in depth; the lode in the 40 fm. level sonth continues large, hard, and wet, but it produces a small quantity of ore of good quality. The lode in the 28 fm. level south is also large, and producing saving work. The level extending south, on the eastern lode, is in very soft ground, with favourable indications, and good stones of leaf; no alteration has taken place in this level, driving north of the old engine-shaft. We regret that several of the pitches are at present idle, and will remain so till the arrival of miners from the western part of the county. We expect to sample a parcel of lead ore the latter end of this week. The masons are still engaged building the crusher-house, which would have been completed ere this, but for heavy rain, which fell here last week several days successively—J. Prinore: August 17.

WHEAL BLENCOWE.—In the back of the 10 fm. level, south of the engine-shaft, the lode is about 15 in. big, fair work; the winze, in the bottom of the 10 fm. level, is holded to a rise in the back of the 26; the men are now employed here in breaking down the lode from the bottom of the 10, which is about 2 ft. wide, good saving work; we have recently opened a little on the east and west branches in the 10 fm. level—it has produced some excellent specimens of tin; it is aboat 20 in. wid

regular way of working, our stamps will have a full supply of work, and our returns of tin will naturally increase.—John Dale: August 18.

WHEAL MARY ANN.—The lode in the 30 fm. level, south of Barratt's shaft, is 22 ft. wide, and worth 18. per fm. In the 15 fm. level south, it is 2 ft. wide, and worth 7. per fm. All the stopes are looking well. Pollard's shaft is sunk 95 fms. under, the adit level. We sampled on Friday last two parcels of ores; the crop is computed 34 tons, and the gossan 21.—P. Clymo, jun.

WHEAL SETON.—In the 90 fm. level east, on Bull's lode, the lode is 1 ft. wide, composed of mundic and spar; we have intersected the cross-course here, and are now cutting through it; when this is done we shall drive north ou it, to cut the north and south caunters, and resume sinking Bull's shaft below the 90 fm. level. In the 80 fm. level west, on the south caunter, the lode is 4 ft. wide, containing stones of ore; the stopes in the back of the 60 fm. level, west on ditto, are worth 90. per fm. Since our last account we have commenced a cross-cut north, from the south caunter in the 50 fm. level, to Tilly's shaft, and we expect to communicate to this in about 12 months. In the 80 fm. level west, on the north caunter, we are carrying about 10 ft. of this lode, which is worth 120. per fm.; the stopes in the back of this level are worth 130. per fm. in the 50 fm. level west, on ditto, the lode is worth 100. Fm.; the stopes, in the back of this level are worth 130. The stopes, in the back of this level, are worth 150. In the 50 fm. level west, on ditto, the lode is 4 ft. wide, composed of spar, mundic, and stones of ore; the lode is worth 80. per fm.; the stopes in the back of this level west, on ditto, the lode is 4 ft. wide, composed of spar, mundic, and stones of ore; the lode in the rise in the back of this level west, on the lode is branch, the lode is 2 ft. wide, worth 8. per fm. The 60 cross-cut has been driven morth of mrt. the stopes in the back of this level level, or show the adit by the end of the

report was read.]

WHEAL TRELAWNEY.—The lode in the 42 fm. level, north of Phillip's shaft, is 3\(\frac{1}{2}\) ft. wide, worth 18\(\text{L}\) per fm.; the lode in the same level south is 2\(\frac{1}{2}\) ft. wide—worth 15\(\text{L}\) per fm. The lode in the 32 fm. level, north of Phillip's shaft, is 2\(\frac{1}{2}\) ft. wide—worth 12\(\text{L}\) per fm. All the stopes are looking well at Phillip's shaft. The 52 cross-cut is driven 6\(\frac{1}{2}\) fm. and we expect to cut the lode in about a fortnight. At Trelawney's shaft, in consequence of breaking the windbore, casing and dividing the shaft, little has been sunk since last report. Vivian's shaft is sunk 2\(\frac{1}{2}\) fms. under the 20 fm. level, in favourable oppound. The lode in the 20 fm. level is 4 ft. wide, composed of gossan, cann, and good stones of lead.—P. Cexmo, jun.: August 16.

### MINING NOTABILIA.

MINING NOTABILIA.

[SXEASTS FROM OUR CORRESPONDENCE.]

A correspondent informs us, that on the lands of Baldwin Tulford, Esq., at Dunsford, near Exeter, a mine is just opened by Capt. Moyle, where there is a good bumch of copper ore in sight, at 6ft, from surface, and which he thinks not improbable may equal the Great Wheal Maris.

CALLINGTON.—I have visited these mines and seen the Kelly Bray lode, and attis looking extraordinarily well; they are breaking some excellentsaving work; at the next level you may look out for a mass of copper, for I fully anticipates it.

The CARADOX and the PHORNIX MINES are making but slow progress; there are but few men working in each, and I learn that a discharge of men will again take place in the Phornix—this I much regret, for the adventurers have been pensevering, and carried on the operations with much spirit.

The DYFNOWM Lead Mine (in Montgomeryshire) worked upon the Costbook System, is situate near the summit of a ridge of mountainous ground, half-way between Machynlleth and Llanidlees—the turnpike-road passing within a few puces of the sett, which is 200 ft. above the level of the shipping port of Derwent-las, on the river Dovey, three miles below Machynlleth, and immediately to the west of Esgair-galid and Delité—the former in the possion of Mesars. Pagh and Williama. In Dyfugum Mine the lode, which has been recently attached, is the Delivé vein, about 4 fms. to the south of the Esgair-galid lode, as seen in Cyfarthfa, and which is of great width—say, 30 ft.—rising up from the bed of the brook in great strength of crystallisation, and yielding very line ore. The fact of this lode ir rising from the bed of a brook, proves what was 70 years ago stated by the celebrated Whiteburst, in his excellent treatise on the Derbyshrie lodes, running under, and parallel to, the streams in that locality—namely: "That lodes so situated will be found charged with ore in depth, much more solid in its nature, and of much greater extent in deposit, the deeper it goes; and, therefore, the

At EAST Chowndals they have already on surface a good pile of copper from a north lode, unexpectedly interfected about a fortright since in the shart, which is improving in depth; this week, a till lode, 3ft. wide, has been eat, and some capital work broken, and it is likely to be very rich—two other in lodes run within about 3 fms. of the one just cut. The engine-shaft will be down in 6 fms. more sunking to 50 fms. at which depth it is intended to cross-cut to take the mais, or Crowadals copper lode, formerly so extremely productive. The prospects at this mine are very good.

EAST ALVENNEY.—This mine, if the lodes continue as at present, will very shortly be working to a good profit, as every place they have cleared up exhibits good stones of tin. They have two lifts of pumps at work on two distinct lodes, each producing excellent stamps-work; and on the same lodes, farther east and west of the shafts, they are breaking excellent work—stones of solid tin, from 7 to 10 lbs. weight, which they are dressing by wire seives, and will sell for grain tin.

Holahush is looking very gloomy; and unless they have a sudden and unexpected change, she will not be able to keep up her samplings.

LAMERSHOOK.—This mine, of which so much has been said, and so much mouse expended in shoding and driving shallow, and almost ussless, levels, is

now looking very gloomy, for the agent has received instructions to suspend the sinking of the engine-shaft; if they do not go deeper, and spend much more money, they will not pay dividends from their present levels. I presume the King-atreat committee would not object now to their agent setting a tribute pitch without consulting them.

Marke Valley.—This mine has considerably improved, and, I think, will ultimately make a good and lasting mine.

North Wheal Friendship.—They have a good pile of tin broken, and are still breaking good stamp work, which they will commesce dressing shortly.

North Roskear.—I find they have a very pleasing and important discovery at North Roskear. If you recollect, Wheal Seton drove their lode into North Roskear sett, and the agents of the latter mine drove their lode into North Roskear sett, and the agents of the latter mine drove their 60 fm. level on upon a wrong branch; but in the 70 fm. level, they have intersected the lode, worth 90! per fm. So the manager informed me yesterday.

South Callington.—Preparations are being made here for the erection of a water-wheel, without which nothing more than driving the adit can be done. They have water sufficient for all purposes during the greater part of the year; the timber for a 40-ft. wheel is on the mine, and arrangements are making for sinking the engine-shaft. In addition to the pare greater part of the year; they have sampled and sold several of lead recently sent to Loudon, they have sampled and sold several tons of manganese.

South Friendship Wheal Anne.—They have forked the water to the

South Friendship Wheal Anne.—They have softed the water to the bottom, and they have a very kindly lode in the 52 fm. level, composed of lead, felapar, floor-spar, prina, blue peach, large stones of mandic, and bright yellow copper. The fode is about 4 ft. wide, underlaying north about 2 ft. in a fm., with two smooth, regular walls; the capel of the fode carries good work for tin. They have sampled, and got on the floors, about 20 tone of ore.

Treletigh Consols.—In the 80 fm. level, west of Garden's shaft, an improvement has taken place since the weekly official report; and in the 100, going west, the lode having a northerly underlay, they have now about 6 ft to drive to intersect the lode, to which the shareholders are looking with interest, Wheal Sampson.—Here they have a splendidly-looking lode, although not yet rich for minerals—it is 4 ft. wide, underlaying about 2 ft. in a fm., composed of very rich gossan, shale of micacous substance, fuller's-earth, carbonate of lime, a great deal of barytes and white fron, spots of very rich copper, and silver-lead; and on the foot wall there is a branch of blue flookan, impregnated with white mundic. On the hanging wall there is a branch of yellow flookan, impregnated with antimony, and what they term bismuth, much like antimony, and a great deal of prian and beautiful spar. The walls of the lode are quite smooth and regular.

West Wheal Treasury.—I am happy to inform you that the mine is look-

MEST WHEAL TREASURY.—I am happy to inform you that the mine is looking much better—they have a good lode in the 50 fm. level east, worth 122 per m.; the 50 west is much improved, but nothing in value for copper ore at pre-ent. The 40 end east is idle, and cross-cutting to intersect the south lode, and hey expect to cut it shortly. The 50 east is a good lode, and worth 102 per m. The adit, and 20 east, in tin lode, are looking pretty cheering.

sent. The 40 end east is idle, and cross-cutting to intersect the south lode, and write they expect to cut it shortly. The 30 east is a good lode, and worth 10/L per fm. The adit, and 20 east, in tin lode, are looking pretty cheering.

\*\*UNITED MEXICAN MINING ASSOCIATION.\*\*
TO THE MINING JOURNAL.\*\*

SIR.—False impressions create false alarms, and, as the letter of your correspondent of the 4th inst. is calculated to alarm distant shareholders, I cannot let it pass unnoticed. I leave him in your hands, to answer that part which has reference to your observations, merely stating my opinion that they were founded on facts and justice, and proceed to answer his misrepresentations. He says, that the company, after 23 years, has only paid the pality dividends of 7s. 6d. and 5s.; now, he ought to know that they have paid off 61,277/. auxiliary capital and bouns, 44,786/. red scrip, beaides paying the above dividends to the original shareholders, as well as upon the shares created in the hour of need, to carry on the operations of the company. If your "Subscriber" has been a shareholder as I have been for 23 years, he must know that the association was only saved from bankruptcy by the firmness and energy of the directors, and the able management of Mr. Shoolbred, in Mexico; by their united efforts, the concern has been saved; and this leads me to remark on the ungenerous observation he makes in allusion to the piece of plate presented to the latter gentleman; "Subscriber" has no right to find fault, because it was the act of the shareholders themselves; and, with regard to the unclaimed dividend fund, he has no more right to meddle with that, than he has with the moutey in my pocket. To pay a 5s. dividend would require 10,793/; and, again, he has no more right to meddle with that, than he has with the moutey in my pocket. To pay a 5s. dividend would require 10,793/; and, again, he has no more right to meddle with that, than he has with the moutey in my pocket. To pay a 5s. dividend would require 10,793/; and, again, h

GREEN VALLEY MINE.

Siz,—Can you inform me, when the final dividend on this mine is going to be paid? Mr. Cronch, of West Caradon, has a large sum in hand for the purpose; but, in consequence of Mr. Skewes not having paid his last call, made more than two years ago, I believe he refuses to settle. The dividend would be 25s. or 30s. per share, and would now be very useful to many of the unfortunates taken in by that speculation.—A Sufference: London, August 18.

[We believe Mr. Skewes reaped a large sum of money by the speculation; and, if he has not paid his call, we would recommend the adoption of legal measures for its recovery. Should a settlement not take place within a few weeks, upon hearing again from "A Sufferer," we can further advise him upon this matter.]

measures for its recovery. Should a settlement not take place within a new weeks, upon hearing again from "A Sufferer," we can further advise him upon the settlement of the meeting of this company, inserted in your paper of last Saturday, it appears, that the agent of the mine was dismissed, "because the representations he had made to Mr. Johnson had not been borne out." This, upon the face of it, appears a most wholesome regulation, and I for one should be glad, indeed, to see it more frequently acted upon; but will Mr. Johnson allow me to ask, whether the so-called deception, in the present instance, is a thing just discovered, or whether it was not matter of conversation in the mine market months ago? That some of the shareholders have been deceived, I doubt not, but cannot conceive that all have. Perhaps, Mr. Johnson will inform you what has become of the "dismissed" agent. I hope he has not been made the scapegoat of others worse than himself. Mr. Johnson farther says, that "after 30 years' experience in the prosecution of lead mines, he had been misled. Does he mean to say for the first time? If so, may I ask if the reports of Silver Valley, published in your Journal of March last, and making out the lode worth 1504, per fim, were not sent to London by Mr. Johnson; and whether copies of them were not given from Finsbury-square to parties, who circulated them in the market, as coming from Mr. Johnson? If Mr. Johnson was not "misled" here, I was; and it was not until the "call" came that my eyes were opened.

\*\*Cornhill, August 17.\*\*

\*\*LIANCYNFELIN MINES.\*\*

Sig.—The news that the Liancynfelin Mines are about to be abandoned has just reached us, and I cannot but express that it is a matter of great regret to every owner of minesal property in this county, to know that a spirited company of London gentlemen have expended 12,000. Or 13,000. upon one of our mines without any remunérating return, or any prospect of being repaid for their outlay; and this regretis increased, by a fear that the losers will scarc

known to the experienced miners of this district to be miserably poor, and were condemned by all the best Flintshire and Cornish mine agents, who ever visited our county. They always said that they were out of the range, or line, of the productive mines, and would never produce such ore. It seems a pity, and rather strange too, that the London capitalists did not seek some good local advice, ere they rushed into this great outlay of their meney—for airely, amongst some of the Cerulah mine agents, now long resident in the neighbourhood, a sound opinion might have been obtained.

I am told, that these persons have been wastly entertained at the reports and prophecies published in your Journaal, of lodes, and Courses of ore, and monthly samplings, sent to you by wise men from other districts; and they would gladly (they say), had it been their business, have communicated the contradictions to these reports, which the working Cornish miners have constantly apread abroad. Surely, the spirited Liancynfelin Company will not desert our favoured county, because a roguish agent put all the beak lumps of one on the outside of the heaps, and made his masters believe that 14 was 140 tons, and wrote reports upon the underground works, that no one here would credit. On all hands, the shureholders fate is greatly pitied; but it is hoped that they will again try their luck amongst us—and by seeking counsel from those learned in the craft, who have a knowledge of our rocks, and lodes, and veins, that they may regain their present losses, and that our district may recover its damaged reputation.

Aberystwith, August 17.

COOMBE TIN MINE

COOMBE TIN MINE.

Sum.—It would appear from the letter of "D." in your last publication, in respect to the Drake Walls Mine, that the anonymous writer of the "Coombe Mine caution," has got binuself—as my friend Coden used to say—into a pretty considerable fix; and how he is to get out of it, I cannot inaggue. When I first read his private announcement, I immediately concluded that it was a new version of cld Æeop's fable of the "Fox and the Grapes;" but I never could have supposed that "Comain Jackey" would have committed himself so sadly, as publicly to assert as truth what is notoriously false. Each is, however, immentably the case; and now that the semblance of his veracity is entirely demolished, by the proofs afforded by "D,"—that "the ancients did not rake the Drake Walls Mine below 25 fathoms, instead of 90 fathoms deep," I do not think that either his advice or his opinion will be deemed worthy of one moment's further attention on the part of the public.

The question about the Coumbe Tin Mine may, therefore, rest on its own merits; and, in the prospect of a profitable adventure, the proprietors may charitably allow "Cousin Jackey" to retire to Coventry, since he can no longer screen himself from the shafts of ridicale behind the walls of Drake Mines or hide humself effectually in the shallow drifts of the ancients, among the other mines of the Dartmoors. For the future, however, I would counse him to take honour for his guide, and, in thinking of "sour grapes," to remember that "good wine needs no bush," and "a good mine no puff."—FAIR PLAY, London, August 18.

TIN BOUNDS.

TIN BOUNDS.

TIN BOUNDS.

TO THE EDITOR OF THE WEST BRITON.

SIR.—Your correspondent, who signs himself "A Tin Bounder," [see Mining Journal, August 7], appears rather to mystify the question of bounds, than to meet it fairly.—What are tim bounds? If I am rightly informed, they are settly, or pieces of ground, marked out for the purpose of being worked for tin, which, if they be so worked, and not left unworked for the space of 12 months, the landower could not prevent the bounder from working, provided the latter paid to the former a 15th dish, or part of the tin that might be raised.

In the case refer red to, of Rogers v. Brenton, the defendant, I believe, pleaded his right to take the tin under authority from the landlord, because the plaintiff (the bounder) had neglected to work. I believe that nobody disputes the legality of tin bounds, provided the bounder continues to work the ground fairly, and pays the required dues to the landlord.

Now, it is well known that the bounders have a custom of going annually and turning up a turf at the several corners of the sett or bounds, which they contend is sufficient to keep possession against all others. This claim of the bounders, provided it were admitted to be good, would tend to prevent ground from being worked, instead of giving that encouragement to tinners which the original grant under the stannary laws was intended to promote.

\*\*MINERAL RESOURCES OF NOTE.\*\*

MINERAL RESOURCES OF NEW MEXICO.

Sir.—In reply to your inquiries, as regards the mineral wealth of this terri-tory, the situation of the mineral regions, &c., I cheerfully send you the information I have been enabled to obtain during my residence in the country— period of some 20 years.—MANUEL ALVAREZ. Santa Fe, May 4.

tory, the situation of the mineral regions, &c., I cheerfully send you the information I have been enabled to obtain during my residence in the country—a period of some 20 years.—MARUEL ALVAREZ: Santa Fe, May 4.

Now Mexico is a part of the ancient province called by the Indians "Cibola." It was called New Mexico, in consequence of the reports of various Spanish adventurers, who visited it before the conquest, and described the aboriginal mhabitants and the mineral wealth of the country to be similar to those of Mexico. The first conquerors discovered mines of the precious metals in nearly all the mountains of the country, and wrought them industriously and profitably. The indications of their indours are yet to be seen in many places. The first settlers having been expelled or destroyed by the Indians, the country was conquered and settled a second time by the ignorant and power classes of people from Zacatecas, and other southern cities, who possessed neither she eaterprise, capital, or knowledge to carry on the business of mining; consequently, in the course of a few generations the knowledge of working the mines, and even the situation of the mines themselves, were lost.

Since 1828, gold-dust has been found, in large quantities, at several places—at the "Old Placer," 27 miles from Santa Fe, and at the Real del Tuesto, some 12 miles forther south. The quantities of the gold-dust obtained have warsed from year to year, according to the number of persons employed in the search for it. During some of the past years it has exceeded, for one year, 6250,000 at these two placers; and, from examination made, abundance of the precious metals in the dust or grain, can be obtained at numerous points, every where south of Santa Fe, on the east side of the Sandilla mountains, as far as the distribution of the dust or grain, can be obtained at numerous points, every where south of Santa Fe, on the east-named place. The "Arroya Henda," is the Advalley of Inos, El Quomado, and Las Trampas, have yielded considerable amounts

CASCADE MINING COMPANY.

An adjourned meeting was held at the British Mining Offices, Moorgatestreet, on Wednesday, the 18th August. E. L. NUGENT, Esq., in the chair.
The minutes of the last special general meeting, held on the 3tst July last,
and the adjournment thereof to this day, having been read and confirmed, and
the lease of the mine, executed by all the proper parties, having been produced,
it was unanimously resolved, that the following gentlemen be a finance committee for conducting the affairs of the company, and that they be appointed
for two months, or until another committee be elected—viz.: Messrs. E. L.
Nugent, J. M. Matthew, G. W. Blanch, W. Fenton, Rev. F. Taunton, Messrs.
D. L. Williams, and W. H. Oliver—and that three be a quorum. The thanks
of the meeting were then unanimously given to the chairman, for his conduct
in the chair.—[It appears, that this valuable piece of mining ground has been
sought after by various parties for the last 50 years, but the owner of the soil
refused to grant a lease until now—and we trust that the present adventurers
will meet with that success in working it which has been so long foretold, and
that it will prove a rich and lasting mine. The celebrated "Lydford Cascade"
is within the limits of the mine.]

EAST WHEAL FORTUNE MINING COMPANY.

X EAST WHEAL FORTUNE MINING COMPANY.

A meeting of adventurers was held at Martin's Hotel, Chacewater, on Thursday, the 12th inst.; the accounts of Mr. R. I. Hocking, the purser, were presented, showing balance against the mine of 701. 17s. 10ad.—The accounts day, the 12th inst.; the accounts of Mr. R. I. Hocking, the purser, were presented, showing balance against the mine of 70l. 17s. 10½d.—The account having been examined were allowed, and a call of 5s. per share made, to liquidate the debt, and for the further prosecution of the mine.—It was resolved, that three men and three boys be employed to continue the deep add and two men and two boys to sink a shaft for ventilation in advance of such end (about 12 fins. deep); also, two men and two boys be employed to drive the shallow adit end, on the course of the lode.—The following report from Capt. R. Woolcock was read to the meeting:—"In accordance to the general mage, I here give a report of the above mine, and also what I deem to be the best mode for the company's adoption in its future prosecution. The deep adit is driven 66 fins. one lode has been intersected in driving, presenting very kindly appearances from what is to be seen, but being discovered very shallow, much cannot be said until seen deeper and in a more settled state; about 15 fins. remain to be driven to intersect the copper lode, and can be driven at present for about 3l. per fin.; about 40 fins. still further north it is expected that Hocking's lode, there have been driven nearly 60 fins, in this level is achibited a gossan of rich nature, perhaps not to be surpassed by any gossan to be found in the neighbouring mines, and highly indicative of leading to immense quantities of mineral in depth; in the bottom of this level are set two tribute pitches, one at 11s. in the 11s, and the other at 13s. 4d. in the 11s from this level was said, last week, about 18 sacks of tinwork, I expect at least-equal to he average of the county. The adventurers' ores remain yet unsold; this fact fitself, is sufficient evidence of the worth of this concern, there being scarcely mine in the county that is its parallel. Two lodes to the north of Hocking's doe remain to be cut; and, from what has been discovered of them, they bld iir to be as good in their results as the one above reserved to. In the prosecution of this concern, I would resonmened the deep salit to be driven by an ficient pare of six men, and a shaft sunk on the present end to ventilate the line; it might be sunk for 30s. to 40s. per fm., average price; the depth could be about 12 fms. I should also recommend the driving the shallow adit, a Hocking's lode—that being a very important feature in working this conm. The geological appearance of the country with which the lodes are surunded, exhibits the highest indications of large metalliferous deposits, and stifably warrants an efficient and extended exploration and development of is important concern. Should the company harmoniously co-operate in caring out the practical and necessary workings, there can scarcely be a doubt at that their outlay and attention will abortly be remunerated by a dividend the thing most to be desired in mining speculationa."

CURRENCY CREEK SPECIAL SURVEY, SOUTH AUSTRALIA.

A meeting of sharsholders was held at the London Tavern, on Wednesday, the 18th inst., for the purpose of receiving the report of the committee as at othe sharsholders who were willing to subscribe and amalgamate their interest for the common object of exploring the lands, in some of which indications of a valuable description of copper had been discovered.—The chair was taken by HANABEL DE CASTRO, Esq.—who said that since the last meeting no fresh information had arrived from Adelaide, and that about half the sharsholders had given their assent to subscribe 10f. per share, and to amalgamate their interests, but the other half had refused, or were neutral. Under these curcumstances he advised the adjournment of the meeting for further information, which will, no doubt, on its arrival induce the dissentients to come forward with more alacrity.

—Mr. Roderstra said, the misfortune was that the indications of the mineral were amongst the town lots, which were in such small sections that the assentients could not interfere for their own advantage without turning up something beneficial to the dissentients.—After some discussion, in which Mr. D. Mocatta, Mr. Lindo, Mr. Baker, Mr. Francis, Mr. Thompson, Mr. Crawford, and others, took part, a resolution was passed unanimously, "That there being no firther information before the committee to warrant their proceeding in this research, the scheme should for the present be suspended."—A vote of thanks was passed to the chairman, when the meeting separated. CURRENCY CREEK SPECIAL SURVEY, SOUTH AUSTRALIA.

HARROWBARROW OLD MINING COMPANY.

HARROWBARROW OLD MINING COMPANY.

At a two-monthly meeting of adventurers held on the 16th inst., the accounts were examined and passed; from which it appeared, that the cost for June and July was 10281. 11s. 6d.; balance from last account, 2451. 11s. 5d.—
12741. 2s. 11d.—By sale of tin, 271. 15s. 4d.; calls, 12071.—12341. 15s. 4d.; showing balance against the mine of 391. 7s. 7d. It was then resolved, that the meeting is desirous of recording its approval at the very satisfactory manner in which the affairs of the company have been conducted by Mr. Carne; and further, that he be discharged from all the outstanding liabilities in respect to the said mine, connected with his office as purser, and that any legal instrument be prepared for that purpose when he requires it. Mr. Carne having resigned his office of purser, it was resolved, that Mr. Frederick Marshall be the purser, at a salary of 4l. 4s. per month, with 10s. 6d. per month for petty stationery and postage; and that Mr. W. W. Palmer be clerk at the mine, at a salary of 4l. 4s. per month.

TREHANE MINING COMPANY.

TREHANE MINING COMPANY.

At a meeting of adventurers, held at the mine, on the 17th inst., the accounts were examined and passed; from which it appeared that the labour cost for April and May was 365£ 1s. 1d.; bills, 85£ 15s. 3d.; lords' dues, 55£ 2s. 9d.; dividend, its June last, 256£—together, 76££ 19s. 1d. By balance to end of March, 608£ 4s. 5d.; ores sold, 868£ 18s. 6d.—together, 1477£ 2s. 11d., showing balance in favour of the mine of 715£ 2s. 10d. It was then resolved, that a dividend of 20s. per share be declared, payable on the 24th inst. It was also resolved, that the claim of Mr. Thomas Kelly, as to the appointment of Captain N. Faull as agent to this mine, be objected to; and that the meeting de adjourn to the 31st inst., to elect an agent, and on other business. The following report from Captain Bryant was then read:—"In the 35 fm. level north, the lode is 3 ft. wide—worth 6£ per fm.; the stopes in the back of this level are producing a fair quantity of ore: we have a 6 ft. stope in the bottom of this level, which we took off from Trelawney 22 fm. level, morth, is 4 ft. wide—worth 15£ to 18£ per fm.; the stopes in the back of this level are looking well. Kelly's shaft is now sinking under the 80 fm. level, and which we hope to hole to the 35 within a month from this time. We sampled a parcel of ore on Thursday last—computed 41 tons, which will yield a good profit; and, having arranged with the Trelawney adventurers for a supply of water for dressing, and for attaching horizontal rods from their new engine for sinking our new shaft (Kelly's), I have not the least doubt, but one-third more one can be returned. I think the terms of this agreement will be of great advantage to Trelawney, as well as to this mine. The working of both mines will now be considerably; as well as to this mine. The working of both mines will now be considerably; as well as great probability of this mine continuing several years, and paying a good profit. We have seen some branches in costeaning west of this lode, which I shou

#### WHEAL CURTIS MINING COMPANY.

WHEAL CURTIS MINING COMPANY.

A meeting of shareholders, and parties interested in the Wheal Curtis Mining Company, was held at the Guildhail Coffee-house, on Friday, the 20th inst., pursuant to advertisement—such meeting being called by Mr. J. Truscott.

J. HALEST, Esq., in the chair.

The advertisement convening the meeting having been read,
Mr. J. Truscorr proceeded to address the meeting; he observed, that it was undoubtedly a good mine, but that discrepancies and differences had arisen, from want of tact and management on the part of the directors of the company; while he had personally to complain of justice not having been done him. He would, however, as conce proceed to direct the attention of the shareholders assembled to the advertisements which had, from time to time, appeared in the Mining Journel, and on which he would offer no research, but leave the meeting to arrive at their own conclusions, after laving heard them, and observed on the altered terms in which they were put forth. He would briefly mention the main points—for intunee, in an advertisement of the 30 Cet., 1846, it was stated that, of the 6000 shares of which the company was constituted, 3000 shares or to be appropriated to the projectors, with a certain amount paid; and, in an a livertisement of the 7th November, it is further stated that 5000, out of the 6000 shares, had been actually appropriated—600 shares to be appropriated—600 shares to having been taken by the public from the time of the first issue. On the 12th D.cember again, an advertisement appeared, stating that no further applications for abures were had been advertisement appeared, stating that no further applications for abures would be received, and that parties desirous of holding an interest must apply to their respective brokers—thus holding out the misrepresentation, as he should presently prove, that the shares had been allotted in fall, to the extent of which the company was formed; it was, moreover, stated, in the advertisement appeared, stating, that looo shake

but because he understood Mr. Truscott complained of two matters—the one that the company was not regularly registered; and, secondly, that the 1-14th portion of shares, to which he was entitled, had not been rendered him.

Mr. Francux (a director) stated that he had tendered 49e shares to Mr. Moss, with 0s. per share paid thereon, on the understanding that 10s. extra per share would be paid, and which Mr. Meas had undertaken should be done.—This, however, was denied by Mr. face, who stated that he would consult Mr. Transcott on the subject: in the end, however, it appears nothing was effected.

Mr. Tanscorr (who was evidently much excited), in the course of the proceedings, and that the directors were altogether wrong. He held in his hand the Joint-Stock empanies Act, whereby they were limited to a call of 10s. per 10sM, until they should finally registered: this would have been something like 4|d, per share, whereas they di called for 30s. In the first instance. He considered the Act had been violated, and at they could not proceed.

Mr. Frinkerow, jun, begged to offer some few remarks, with respect to the course of the proceedings, and had concurred in them. He (Sixt. Lead alvocated the extablishment the company under the Joint-Stock Companies.—The remark, it is only due to Mr. econy, and had concurred in them. He (Sixt. Lead alvocated the extablishment the company under the Joint-Stock Companies.—This remerk, it is only due to Mr. econy, and had concurred in them. He (Sixt. Lead alvocated the extablishment the company under the Joint-Stock Companies.—This remerk, it is only due to Mr. econy, and had concurred in them.—He (Sixt. Lead alvocated the extablishment the company under the Joint-Stock Companies.—This remerk, it is only due to Mr. econy, and had conciled manner—insament their is, "I be the first in "I be the stock of the econy of Mr. Truscott in convening the meeting, and matter the stock, he spoke of the stock of the econy we think that the less said the better.

Coat-book System, as he was to have been entitled to his shares, with 11, paid thereon.

[We doubt not, there must have been an error on the part of Mr. Bull in advancing this point, which quite established that of Mr. Truscett\*, who declared that he declined that hig his shares, because the mine was not conducted on the Cost-book Principle; and this is pretty clear, insamench that the Joint-Stock Companie Act only provides for one-half per cent. being paid until bomplete registration—while his shares, with 11, paid on 41, shares, would have been at the rate of 25 per cents, or 30 times the amount warranned by the Act.]—Mr. Bull, in continuation, stated, that a Deed of Settlement had been prepared and excepted by more than one-half of the shares subscribed for—while by the Act only one-quarter was required. Some remarks had been made as to the discrepancies in the advertisements, which he was most ready to meet. If was, he admitted, originally proposed and agreed upon, that Capt. Pilkington should take 3000 shares—that gentleman taking upon himself the expenses of the mine up to a certain period. This arrangement was, however, subsequently altered—it having been agreed upon with the directors that he should receive in lieu thereof 1000 shares, with 30s, paid thereon, instead of 3000 shares, with II. paid; and such had been carried out—the company paying the expenses incurred. The advertisements referred to had been distorted for a purpose. He had further to observe, that, although lift. Truscott had stated that the company was not duly registered paid to the state of the paying the expenses incurred. The advertisements referred to had been storted by paying the expenses incurred. The advertisements referred to had been distorted for a purpose. He had further to observe, that, although lift. Truscott had stated that the company was not duly registered paids in the advertisement of Mr. Truscott, he had been stronlated to exertion, and was happy to say that all was now perfect. Mr. Bull proceeded with some remarks

representation affects the interests of the shareholders, or the state of the company.—
The resolution having been seconded by Mr. Pierikoto, jun., was carried, with one or
we hands being held up against it.

A vote of thanks having been moved to the chairman, was seconded by Mr. Tauscorr,
who stated, that having originally held 50 shares, he had attended the general meeting
of the company, at which he had been nominated and appointed as a director. He had
ince then visited the mine, and was well pleased with the prospects of the company, and
the satisfactory state of their works. He was sorry to find that there had been a disinlination to pay up the calls on the shares; but, to enable the company to go on, and
ave their engine at work, which was now the case, he had not hesitated to make an adance. He thanked the meeting for their courtesy and kindness.

DARTMOOR CONSOLS MINING COMPANY.

We now give the report of H. Williams, Esq., the engineer to the Dartmoor Consols Mining Company, as promised in our notice of last week:

"Being honoured with the appointment of consulting engineer to your company, I have, by the desire of the secretary, minutely investigated the Dartmoor Tim Mine, and beg most respectfully to place before you my best and most careful consideration. The sett held by the company is extensive, and largely intersected by tin lodes, which is most satisfactorily proved by the operations of the late proprietors. The mineral veins, more particularly tin, traversing through the decomposed granite of this district, are many; the lodes which have been worked, but to no great extent, present most favourable features to a practical minist; and I was informed, by mining captains of respectability, and old miners who have worked for many years in the neighbourhood, that the lodes really are what they represent them to be After a fair analysation of all the information I could collect, I proceeded to examine the shallow adit, which is driven nearly 600 fms eastward through a decomposed granite, and is in a very good condition; on my way through the adit, I observed enveral cross-courses and droppers, the latter tending principally towards the main lode, which is thrown downwards; the main lode itself presents a very equantities have been excavated, and a much greater quantity still remains to be worked—but, to do so profitably and permanently, you must have a main water shaft; the site of Henry's shaft I consider to be very well selected for that purpose, from which you can run your cross-cuts, or drifts, to intersect the north and south lodes; by that means you will drain all the lodes by one set of pumps, put in motion by water-power—in this opinion Capts. Spargo and Gregory fully concer. By adopting the above arrangement, you will intersect the north and south lodes; by that means you will drain all the lodes by one set of pumps, put in motion by water-power—in this opinion. Capts. Spargo We now give the report of H. Williams, Esq., the engineer to the Dartor Consols Mining Company, as promised in our notice of last week:-

Grambler and St. Aubyn.—At a meeting of adventurers, held on Monday last, the following accounts were examined and allowed:—To balance due to purser on the 1st of March, 1431. 9a. 9d.; costs and merchants' bills for March, April, May, and June, 22661. 15a. 3d. — 2410. 5a.—By ores sold, less dues, 18581. 18a. 7d.: balance now due to purser, 5511. 6a. 5d.

The Wheal Portledge Copper Mine, about four miles to the west of Bideford, is again taken up by a new company. It has just commenced working, and is lakely to prove very successful.—West of England Conservative.

ORIGINAL REGISTRY OFFICE, FOR THE SALE AND PURCHASE OF MINING SHARES.

No. 28, THREADNEEDLE-STREET, LONDON.

No. 28, THREADMEEDLE-STREET, LONDON.
CROSSMAN, SOMMERS, AND CO., AGENTS.
SHARES FOR DISPOSAL.

d Courtenay Consols
all Rough Tor
seal Frederick Tin Mine
seal Frederick Tin Mine
seal Rough Tor
and St. Aubyn
Crowndale
heal Camel
lityse Coombe Mine
Devon and Courtenay Consola
East Wheal Rough Tor
Great Wheal Frederick Tin Mine
Great Wheal Frederick Tin Mine
Great Wheal Rough Tor
Grambler and St. Aubyn
Rew East Crowndale
North Wheal Camel
Princess Royal 50

CEORGIA TIN MINES, divided into 2048 shares, and worked ON THE COST-BOOK SYSTEM.

The necessary arrangements having been made for carrying out the operations of the company, all future communications are requested to be addressed to the offices of the company, 21, THROGMORTON-STREET, LONDON, where the specimens and plans with the correspondence, may be seen.

Communication is likely to be carried out; but we are induced, from inquiries, to believe the statement we have just green a proof in likely to be carried out; but we are induced, from inquiries, to believe the statement we have just green specific of from inquiries, to believe the statement we have just green a protect of the plant to be made.—Cornwall Gaz.

In we broad-Gauge Lamb to Southampton.—It is stated, in a quarter where correct information is generally possessed, that in the next session a line will be submitted to Parliament, for effecting a broad gauge communication between the important manufacturing districts with which the Great Western Railway is now connected—viz: Worcester, Wolverhampton, Dudley, Gloucester, and the mineral districts of Wales, and the port of Southampton. We have not been able to ascertain the precise mode in which this desirable communication is likely to be carried out; but we are induced, from inquiries, to believe the statement we have just given is perfectly true.—Rail. Record.

NEW TRADE.—Among the importations from Antwerp last week, was a cargo of rooffing tiles. This is understood to have been the first imported from abroad, and it appears to be the commencement of a new trade, as it is said there is another vessel on its way, and that a large quantity is still ready for shipment.

MINES, METALLURGIC ESTABLISHMENTS, &c., or BELGIUM.

We are enabled to present to our readers an abstract of the official returns, for the years from 1839 to 1844, relative to the mines, metallurgic establishments, steam-engines, &c., of Belgium. The returns have been drawn up by the officers of the Department of Mines in the Ministry of Public Works in Belgium, and are the latest that have been made. They present the fullest and most accurate account of the mining and metaltur-gic affairs of that country, which it is possible to obtain.

I. COAL MINES.—PROVINCE OF HAINAUT.

The number of coal mines conceded did not vary in a very sensible manner during the period from 1839 to 1844; the differences in the numbers arose particularly from the regularisation of old concessions, or workings. The number of mines conceded, or allowed to be worked provisionally, during each of the years from 1839 to 1844, was as follows:— 

Mines conceded

Mines allowed to be worked provisionally 95 ... 50 ... 83 ... 83 ... 22 ... 79

The superficial extent of the soil, attributed to the persons to whom mines were conceded, or permissions for provisional workings granted, was:—

1839. 1840. 1841. 1842. 1843. 1844. 1844. 1844. 1844. 1844. 1845. 1844. 1845. 1844. 1845. 1845. 1846. Mect. hect. hec

Mines left unworked. 31 ... 35 ... 35 ... 41 ... 156 157

The Government, by the advice of the Council of Mines, rejected many demands for concessions, because the persons who made them had not previously undertaken researches for coal, or because the works executed did not prove that deposits of coal existed which could be worked profitably. The number of pits, &c., worked, and of pits at which preparations for working were being made, was—

1839. 1840. 1841. 1842. 1843. 1844. 1849. 1845. 1844. 1849. 1846. 1841. 1849. 1846. 1841. 1849. 1846. 1841. 1849. 1846. 1844. 1848. 1848. 1844. 1848. 1844. 1848. 184

The greatest and average depths of the pits which were worked were—

1839, 1840, 1841, 1842, 1843, 1844, 1839, 1840, 1841, 1842, 1843, 1844, 1849, 1840, 1841, 1842, 1843, 1844, 1849, 1840, 1841, 1842, 1843, 1844, 1849, 1840, 1841, 1842, 1843, 1844, 1849, 1840, 1841, 1842, 1843, 1844, 184

| 1839                | 224 z | nachines, | representing |       | 6389 | horse | power.        |
|---------------------|-------|-----------|--------------|-------|------|-------|---------------|
| 1840                | 244   |           |              |       | 7206 |       | M             |
| 1841                |       | 10.00     |              |       | 7710 |       | 10 × 30 kg 25 |
| 1842                |       |           |              |       | 7570 |       |               |
| 1843                |       |           |              |       | 7616 |       | 11            |
| 1844                |       |           |              |       | 7919 |       |               |
| The number of the n |       |           |              |       |      |       |               |
| 1839                | 66 n  | achines,  | representing |       | 6371 | horse | power.        |
| 1840                | 70    | 11        |              |       | 6536 |       |               |
| 1841                |       | - 55      |              |       | 6316 |       | 99            |
| 1842                |       | . 10      |              | ***** |      |       |               |
| 1343                | 78    |           |              | ***** | 8074 |       | **            |
| 1844                |       |           |              |       | 8595 |       |               |

It will be observed, that the steam power was greater for removing the water than for extracting the coal. Other artificial or natural means were also employed in the extraction of coal—viz:

| MT 32 by  |             | 4                                       | -         | IN OF    | THE COUCH    | HANT D         | U MONS.     | ALT TO MAKE    | MARKET .    |                         |   |
|-----------|-------------|---|-----------|----------|--------------|----------------|-------------|----------------|-------------|-------------------------|---|
| Years     | 25, 7(01)   | Miners.                                 | D         | mwers.   | Loader       | na Uni         | loaders.    | Various.       | Ofall       | kinds.                  |   |
|           | CITAL S     | fr. c.                                  |           | fr. c.   | E. NE. IN    | fr.c.          | NH 9.96     | fr.c.          |             | fr. c.                  |   |
| 1839      |             | 2 87                                    | ******    | 3 00     | *******      | 1 82           | *******     | 9 00           | *******     | -9 86                   |   |
| 1840      | **          | 2 74                                    | *****     | 2 95     | ******       | 1.74           |             | 2 10           | ******      | 2 19                    |   |
| 1841      |             | 2 49                                    | ****      | 2 90     | *******      | 1 67           | *******     | 1 85           | *******     | 2 07                    |   |
| 1842      |             | 2 39                                    | *****     | 2 77     |              | 1 53           | *******     | 1 86           | *******     | 2 08                    |   |
| 1843      |             | 2 31                                    |           | 2 55     | *****        | 1 50           |             | 1 83           |             | 1 83                    | è |
| 1844      | *****       | 2 25                                    | *****     | 3 40     | ******       | 1 47           | ******      | 1 63           | *******     | 1 80                    |   |
| Property. | 96,3700     | 000000000000000000000000000000000000000 |           | BASI     | H OF THE     | CENTR          | E CONTRACT  | 100000         | STAND LO    | Dist.                   |   |
| 1839      | *****       | 1 40                                    | ****      | 1 00     | *******      | 1 80           |             | 1 70           | ******      | 1 30                    |   |
| 1840      |             | 1 26                                    | *****     | 9 90     |              | 1 20           |             | 1 60           | ******      | 1 20                    |   |
| 1841      |             | 1 35                                    |           | 0 90     | ******       | 1 20           |             | 1 60           |             | 1 20                    |   |
| 1842      | *****       | 1 35                                    | *****     | 0 90     | ******       | 1 20           | ******      | 1 60           |             | 1 20                    |   |
| 1843      | *****       | 1 85                                    |           | 0 90     | *****        | 1 20           |             | 1 60           |             | 1 20                    |   |
| 1844      | *****       | 1 40                                    | *****     | 1 00     |              | 1 30           |             | 1 70           | *******     | 1 30                    |   |
|           | 80 - 6 (SO) |   |           |          | IN OF CHA    | BLEBOY         | STAGE OF    | HUBBLES        |             | SET TOWN                |   |
| 1839      | *****       | 2 40                                    | *****     | 1 40     | ******       | 1 60           |             | 1.80           | *******     | 1 60                    |   |
| 1840      |             | 2 00                                    | *****     | 1 20     | ** *****     | .1 65          |             | 1 60           | *******     | 1 60                    |   |
| 1841      | ** ** **    | 2 05                                    | *****     | 1 20     |              | 1 65           |             | 1.60           |             | 1 50                    |   |
| 1842      | *****       | 1 90                                    | *****     | 1 15     | *******      | 1 50           | *** *****   | 1 60           | *******     | 1 55                    |   |
| 1843      | *****       | 1 90                                    | *****     | 1 10     |              | 1 40           | ** ** ** ** | 1 60           |             | 1 50                    |   |
| 1844      |             | 1 90                                    | *****     | 1 10     | ** ** ** **  | 1 45           | *******     | 1 00           | ** ** ** ** | 1 60:                   |   |
|           |             | [3                                      | To be con | tipued i | in next sooi | th's Min       | ing Jours   | ial.]          |             | CONTRACTOR OF THE PARTY |   |
|           | 124-2       | CARLES AND STREET                       | NIL COLOR | A        |              | Action Service | A 100 PM    | BILLIPAGE 6 AC |             |                         |   |

EXPORTS OF THE UNITED KINGDOM: -We extract the follow of the principal articles of British and Irish prod years ending 5th July, 1848-46-47:--1845. 1847. t; during re in cou The mee vidend of

arrent

Shares in Condurated an advance cated by A reaction sever e greate The bu-the onl

RAILW

vith who doubt or investment has noderate Consols. MEETING and expenser share. creased fr COME AND to comme to was re-STAT scription for traff

there we of these dents; \$823 fores 10,800 a layers; miscells miles, it and ma account a53 inspector or carte on these THE terday from E

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Pr

## urrent Prices of Stocks, Shares, & Metals.

Belgian Bonds, 44 per Cent., —
Dutch, 24 per Cent., 65 54 6
Brazilian, 5 per Centa., New, 644
Chilian, 6 per Centa., 184 3
Spanish, 5 per Centa., 202
Ditto 3 per Centa., 202
Ditto 3 per Centa., 30
Portuguese, 4 per Centa., 37
Russian, 5 per Centa., 110 k Stock, 7 per Cent., 1984
Cent. Reduced Ann., 674
Cent. Annolis Ann., 674
Cent. Annulties,
Cent. Annulties,
Cent. Annolis 94
Sacok, 104
per Cent.,
C

MINES.—The mining share market has evidently improved since our to during the week several transactions have been completed, which re in course of negociation, as referred to in our last. The meeting of Trehane adventurers, held on Wednesday, declared a vidend of 1. per 256th share.

Shares in the following mines have changed hands—viz.: Marke Valymers, West Providence, Condurrows, West Scton, Herodsfoot, Exombe, Trehane, West Basset, Callington, East Crowndale, Gwinear. Condurrows have been in demand; several shares have changed hands, dan advance in each transaction appears to have taken place. In the Callington Mines several shares have been done during the week advanced prices; and, in consequence of further discoveries, commutated by private letters, shares have been in greater demand. A reaction has also taken place in Holmbush shares, arising principally on several improvements since the official letters have been received—ogreatest improvements appears to be in the 100 fathom level, going the towards the Callington lode, and shares have advanced to our casent quotation.

resent quotation.

East Crowndale is reported to have improved; we have seen some exillent stones of ore, taken from the engine shaft during the week.

The business done in foreign shares during the week has been very few
the only transactions, which have come under our notice, have been in
ustralian and St. John del Rey shares.

RAILWAYS.—On Monday, railway shares generally supported the prices in dwhich when the market closed in the previous week; and, in some cases, od doubt, where a previous decline had induced buyers to come forward or investment, better prices were obtained. No fluctuations of any monent have taken place during the week, and the market closed with a noderate degree of firmness, owing to an improvement in the price of Consols.

Donsols.

MESTINGS.—LONDON AND BLACKWALL: half-yearly; the receipts had been 27,602. ;
de expenses, 23,841.: leaving a balance of 3761. i., which would give a dividend of is. 6d. er share. The returns for the first six months of 1847, as compared with 1846, had decreased from 1,466,180 passengers and 23,752. I. o. 1,384,627 passengers and 22,969.—
Corn and Waterson: half-yearly; it was proposed that a call of 11. per share be made, o commence the works from Waterford to Tramore: but, on the motion of Mr. Garrett, it was resolved, that the directors be requested to postpone any call until March, 1848.—Garat Wastern: half-yearly from the report, it appeared, that the assenger traffic receipts had diminished 4100.; while there had been an increase in goods of 51,007 tons, and 41,1331.; 20,000. was placed to the reserve fund from premiums on the sale of shares; the balance disposable was 255,343., from which a dividend of 4 per cent. for the half-year was declared; on the capital account, it appeared the entire receipts were 10,739,3950. 9s.; and expenses, 10,630,763. 6s. 11d.: leaving 105,187. 2s. 1d.—Maxchasters, Sueptracto, And Linconsental half-yearly; the traffic return had gradually and steadily improved, and a dividend of 51, per cent. per annum was declared.—
EAST AND WEST YORKSHIES UNCTON'S : half-yearly; the recipts from the commencement had been 94,3571., and expenses 93,6181.—SOUTHAMPTON AND DORGHESTES: half-yearly; the line has now been open for some months, and, according to the report, the traffic returns the gradual process in the revenue of 37751., and a dividend of 31. 10s. on the 1361. shares.

Statistics of Raturax Employment.—A return of the number and de-

an increase in the revenue of 27754., and a dividend of 3t. 10s. on the 156t. shares.

STATISTICS OF RAILWAY EMPLOYMENT.—A return of the numbea and description of persons employed on the railways of the United Kingdom (open for traffic), on the lat of May last, has just been printed, from which it appears there were employed on 74 railways, comprising an extent of 3305 miles, 47,918 persons; of these 124 were secretaries, managers, and treasurers; 25 sungineers; 290 superintendents; 91 storekoepers; 100 accountants and cashiers; 100 draughtsmen; 8432 clerks; 623 foremen; 2905 engineemen or drivers, and assistants; 1163 conductors or guarts; 10,600 artificers; 104 switchmen; 8576 policemen, porters, and messengers; 4168 blatenlayers; 13,493 labourers; 407 gateleogers; 101 waggoners; 40 breakmen; and 556 had miscellaneous employment. From a similar return on lines and branches in course of construction at the same period, smounting to 129, and comprising an extent of 6456 miles; it appears there were 256,600 persons employed. Of these 350 were secretaries and managers, 34 treasurers, 540 engineers, 2362 superintendents and storekeepers, 364 accountants and cashiers, 1437 draughtsmen and clerks, 240,301 artificers and labourers, 183 inspectors, 32 land surveyors, 6741 milers or quarrymen, 1687 foremen, 122 policemen or gatekeepers, 16 porters, servants, or watchmen; 676 platelayers, 1793 horsedrivers or carters, and 487 had miscellaneous employed. Total number of persons employed on these two classes of lines, 303,737.

The 4 LONDON \*\* ENGINEE.—This engine (on Mr. Crampton's principle), yes-

THE "LONDON" ENGINE.—This engine (on Mr. Crampton's principle), yesterday took the morning mail, with 12 carriages, a distance of 31 miles—viz.: from Euston station to Tring, in 39 minutes.—Railway Record.

#### RAILWAY TRAFFIC RETURNS.

| Name of Railway.                    | Lgth.<br>Rway. | Present ac- | Price<br>per share |         | Traffic 1 | Returns<br>1846 |    |
|-------------------------------------|----------------|-------------|--------------------|---------|-----------|-----------------|----|
| Arbroath and Forfar                 | 15             | £179,939    | 264                | 3 p. c. | £335      | £ 348           | M  |
| Chester and Birkenhead              | 15             | 658,293     | 394                |         | 808       | 1088            | ä  |
| Dublin and Drogheda                 | 35             | 689,248     | 54                 | 3       | 1002      | 1021            | М  |
| Dublin and Kingstown                | 78             | 473,282     | 10350000           | 9       | 1253      | 1152            | а  |
| Dundee and Arbroath                 | 164            | 156,323     | 39                 | 60et    | -         | 433             | al |
| Dundee, Perth, and Aberdeen         | 47             | 285,745     | 334                | 6       | 1088      | 417             | 8  |
| East Lancashire                     | 304            | 2,207,490   | 18                 | -       | 1137      | 10000           | а  |
| Eastern Counties                    | 226            | 6,513,026   | 18#                | 7       | 13077     | 8985            | ш  |
| Eastern Union                       | 44             | 531,021     | 59                 |         | 1218      | 398             | а  |
| Edinburgh and Glasgow               | 48             | 2,275,435   | 63                 | 6       | 4705      | 4117            | а  |
| Glasgew, Paisley, and Ayr           | 601            | 1,567,281   | 191                | 7       | 2820      | 2815            | а  |
| Glasgow, Paisley, & Greenock        | 22             | 835,918     | 194                | 2       | -         | 1270            | а  |
| Gt. Southern & Western, Ireland     | 1101           | 1,343,718   | 29                 | 1000    | 1732      | 1000            | а  |
| Great Western                       | 241            | 9,714,939   | 109                | 8       | 21543     | 21771           | а  |
| Kendal and Windermers               | 101            | 147,001     | 244                | -       | 240       | -               | а  |
| Lancaster and Carlisla              | 70             | 1,209,913   | 60                 | 147497  | 1699      | TANK I          | а  |
| London and North Western            | 382            | 18,042,004  | 163                | 10      | 49115     | 46285           | а  |
| London and Blackwall                | 4              | 1,102,717   | 82                 | 14      | 1406      | 1440            | d  |
| London, Brighton, & South Coast     | 1874           | 5,109,667   | 484                | 100     | 10660     | 10530           | а  |
| London and South-Western            | 1864           | 5,836,132   | 694                | 9       | 10889     | 8944            | 3  |
| Londonderry and Enniskillen         | 144            | opour .     | 244                | 1       | 289       | 0000            | ä  |
| Manchester & Leeds                  | 1474           | 5,036,391   | 94                 | 50      | 9987      | 7925            | 9  |
| Manchester, Sheffield, & Lincolnsh. |                | 1,678,108   | 69                 | 6       | 2525      | 1931            | а  |
| Maryport and Carlisle               | 28             | 414,895     | -                  | -       | 686       | 518             | а  |
| Midland Company                     | 371            | 7.862,274   | 115                | 7       | 28193     | 20105           | а  |
| Newcastle and Carlisle              | 68             | 1,184,080   | 118                | 1000    | 2703      | 2134            | ä  |
| Norfolk                             | 704            | 1,199,689   | 108                | 7       | 2334      | 1481            | ă  |
| North British                       | 78             | 1,459,958   | 30#                | 10000   | 2950      | 2334            | 1  |
| Shrewsbury and Chester              | 17             | 591,158     | 214                | 1100    | 519       | 1772005         | a  |
| South Devon                         | 20             | 1,061,283   | 29                 |         | 1087      | 600             | а  |
| South-Eastern                       | 1574           | 5,888,411   | 344                | 30      | 10979     | 10180           | đ  |
| Taff Vale                           | 38             | 888,411     | Consult I          | 61      | 1583      | 1078            | 1  |
| Ulster                              | 25             | 358,353     | 52                 | 54      | 861       | 749             | ı  |
| Whitehaven Junction                 | 12             | 91,274      | Distance of        |         | 001       | TO THE S        | 1  |
| York, Newcastle, & Berwick          | 2284           | 3,683,102   | 344                | 0       | 13408     | Phones !        | 4  |
| York and North Midlend              | 1824           | 2,483,256   | 77                 | 10      | 9392      | 7414            | 1  |

Total earnings for last week, £215,266, being an increase of £37,016 over last year.

number of passengers who passe was 16,521; am THAMES TUNNEL COMPANY.

twho passed through the Tunnel in the week ending Aug. 14,
16,521; amount of money, £68 16s. 9d.

#### COAL MARKET, LONDON.

COAL MARKET, LONDON.

MONDAY.—Charlotte 16 9—Chester Main 16 3—Davison's West Harriey 17 9—Delaval Hartley 17 3—Hasting's Hartley 17 9—Helywell Main 16 3—Original Tanfield 16 6 42 9—Townley 16—Tanfield Moor Market Pelaw 16—Stewart's Harriey 16 6—Tanfield Moor Market Pelaw 16—Stewart's Harriey 16 6—Tanfield Moor Market Pelaw 16—Stewart's Harriey 16 6—Tanfield Moor Market Pelaw 16—Stewart's Harriey 17 9—Townley 16—Tanfield Moor Market Pelaw 17 9—Eden Main 18—Drasdyll's Hetton 18 9—Sast Hetton 17 9—Haswell 19 3—Hetton 18 9—Market Pelaw 19 9—Kerton 19 9—Kerton 19 9—Kerton 19 9—Kerton 19 9—Kerton 19 9—Hetton 18 9—Hetton 18 9—Market Pelaw 19 9—Adelaide Townley 19 9—Rownley 16—Tanfield Moor Market Pelawart's Harriey 17 9—Hownley 17 9—Townley 17 9—Adelaide Townley 18 9—Hetton 18 9—Hetton 18 9—Hetton 18 9—Hetton 19 9—Townley 19 9—Adelaide Townley 19 9—Stewart's Harriey 19 9—Kerton 19 9—Kert

| PRICES OF MINING SHARES.   |   |  |  |  |  |  |
|--|---|--|--|--|--|--|
| BRITISH MINES.   | BRITISH MINES—continued. Shares. Company, Paid. Price.  |  |  |  |  |  |
| Shares   Company   Paid   Prica   1000 Abergwessin   7   12   512 Albert Consols   1   24   1024 Alfred Consols   44   80   256 Alternum Consols   2   12  | Shares. Company. Paid. Price.<br>128 South Caradon 10 450<br>2000 South Dolcoath 2 1  |  |  |  |  |  |
| 1024 Alfred Consols 41. 80   |   |  |  |  |  |  |
| 235 Andrew and Nanglies 284 16   | 9000 South Tamar \$ \$  |  |  |  |  |  |
| 285 Andrew and Nanglies 284 15 10000 Ayrahire Iron Company 5 36 1624 Ballowidden 9 18 128 Balnoon Consols 25 25 10000 Banwen Iron Co. 2  | 800 South Towan 10 11<br>256 South Trelawney 151 61   |  |  |  |  |  |
| 10000 Banwen Iron Co 2   | 286 South Tolgus 24 25 800 South Towan 10 12 286 South Trelawney 154 64 286 South Wheal Basset 110 65-70 128 South Wheal Basset 110 65-70 124 South Wh. Francis 69 210 286 South Wh. Hope 5 5 1000 South Wh. Maria 24 24 286 South Wh. Basset 110 10 286 South Wheal Rose 111 10 286 South Wheal Rose 112 10 286 South Wheal Rose 112 12 286 South Wheal Rose 112 12 286 South Wheal Rose 113 14 10 286 South Wheal Rose 113 14 10 286 South Wheal Rose 113 14 10 386 South Wheal Rose 113 14 10 386 South Wheal Rose 113 14 14 386 South Wheal Rose 113 14 14 387 14 14 14 14 14 14 14 14 14 14 14 14 14 |  |  |  |  |  |
| 4000 Bedford 25 31   | 124 South Wh. Francis 160 210   |  |  |  |  |  |
| 315 Birch Tor Tin Mine 244 72<br>8000 Blaenavon 50 23<br>100 Botaliack 175 140   | 1000 South Wh. Maria 22 22  |  |  |  |  |  |
| 100 Botallack  | 10000 Southern& Western, Irish 2 4-5<br>280 Spearne Moor  |  |  |  |  |  |
| 19900 British Iron, New regis, 10 184  | 256 St. Austeil Consols 9 14<br>94 St. Ives Consols — 320<br>128 St. Michael Penkivel 5 10  |  |  |  |  |  |
| - Ditto ditto, scrip 10 19 128 Budnick Consols 524 40 128 Burthy 20 21   | 1000 Stray Park 43 . 30   |  |  |  |  |  |
| 128 Callestock   | 1024 Tavy Consols 5 5‡  |  |  |  |  |  |
| 256 Caradon Copper Mine 94. 1  | DUUU Tincroft 7 8   |  |  |  |  |  |
| 256 Caradon Mines 22 17<br>256 Caradon United 24 10  | 1000 Tin Vale Consols   |  |  |  |  |  |
| 1900 Carn Brea 15 115  | sood Treleigh Consols 0 4   |  |  |  |  |  |
|  | 2000 Trenance 2   |  |  |  |  |  |
| 112 Charlestown200 100<br>166 Cleveland  | 120 Trethellan 5 . 20   |  |  |  |  |  |
| 166 Cleveland. 9 5 512 Coatlithe Hill \$ 1-14 1990 Combmartin 7 3 3 500 Comblawn 1 1 14 128 Comfort 45 100 256 Condurrow 20 30 2560 Cook's Kitchen 14 5 1000 Coornbe Valley Quarry 1 1 14 1000 Coornbe Valley Quarry 1 1 5 | 268 Trevean   |  |  |  |  |  |
| 128 Comfort 45 100<br>256 Conductor  | 128 Trewellard 12 261   |  |  |  |  |  |
| 2560 Cook's Kitchen 14 51<br>1000 Coombe Valley Quarry 11 11   | 100 United Mines300 350<br>256 Wellington Mines 15 30   |  |  |  |  |  |
| 1000 Copper Bettom 1 5<br>1024 Cosheen 4 20  |   |  |  |  |  |  |
| 1024 Cosheen   | 256 West Caradon 20 168 128 West Cargoll 2 12 512 West Fowey Consols 40 15  |  |  |  |  |  |
| 500 Cubert Mine 12½ 23<br>2048 Dartmoor Consols 2 4  | 256 West Grambler 7 8   |  |  |  |  |  |
| 2048 Dartmoor Consols 2 4 7100 Derwent   | 256 West Providence 1 20<br>200 West Seton 40 721<br>— West of Scotland IronCo.210 212  |  |  |  |  |  |
| 1000 Dhywada   | 120 West Trethellan 5 35<br>256 West United Hills 2 4   |  |  |  |  |  |
| 2560 Drake Walls 4 4   | 256 West Wh. Friendship. 71 3   |  |  |  |  |  |
|  | 2560 West Wh. Maria 21 1<br>2560 West Wheal Rough Tor 4 2   |  |  |  |  |  |
| 256 East Alvenney  | 2560 West Wheal Rough Tor 2 2566 West Wheal Rough Tor 2 256 West Wheal Slepherd. 5 256 West Wheal Torgus 2 124 256 West Wheal Treasury 19 10 5200 Wicklow Copper 11 184 Wheal Adams 41 10   |  |  |  |  |  |
| 125 East Pool 0 00   | 256 West Wheal Treasury 19 10<br>5200 Wicklow Copper 5 12   |  |  |  |  |  |
| 100 East Relistian 22 40 9000 East Tamar Consols 1 2 — East Wheal Albert 1 3   | 184 Wheal Adams 41 10<br>1000 Wheal Agar 8<br>256 Wheal Albert 10 8   |  |  |  |  |  |
| 94 East Wheal Crofty 280 125   | 1 128 Wheal Acland 13 2   |  |  |  |  |  |
| 94 East Wheal Crofty 280 125<br>256 East Wheal Fortune 2 3<br>128 East Wheal Rose 50 1300<br>2048 East Wh. Rough Tor 4 2   | 256 Wheal Allen   |  |  |  |  |  |
| 199 Fact Wheel Seton 14 90   | 1024 Wheal Ash  |  |  |  |  |  |
| 256 Elborough  | 120 Wheal Bal 51 20   |  |  |  |  |  |
| 512 Fowey Consols 40 45<br>6400 Gadair 2 2   | 256 Wheal Benny   |  |  |  |  |  |
| 20000 Galvanised Iron Co 10 91<br>10000 Gen.Mining Co.for Irel. 2 1  | 256 Wheal Bucketts 20 22<br>256 Wheal Byon Consols  |  |  |  |  |  |
| 20000 Galvanised fron Co.   10   94  | 136 Wheal Clifford 190 190  |  |  |  |  |  |
| 277 Grambler & St. Aubyn — . 12  | 6000 Wheal Curtis 12  |  |  |  |  |  |
| 100 Great Consols  | 200 Whem Fortesche of 8   |  |  |  |  |  |
| 256 Great Resugga Moor 3 3   |   |  |  |  |  |  |
| 1500 Great South Tolgus 2 2  | 888 Wheal Franco 27 40 1024 Wheal Grace 3 24 128 Wheal Harriet 45 50 256 Wheal Jame 21 15   |  |  |  |  |  |
| 1000 Grogwinion  | 256 Wheal Jane 21 15<br>256 Wheal Kekewich 4 4  |  |  |  |  |  |
| 1000 Hanson  | 256 Wheal Louisa 74 12  |  |  |  |  |  |
| 600 Hawkmans 3 . 9   | 112 Wheal Margaret  |  |  |  |  |  |
| 256 Herodefoot   | 512 Wheal Mary Ann 5 24<br>256 Wheal Mary Consols. 38 25  |  |  |  |  |  |
| 10000 Hiberman 125 15  | 256 Wheal Mary (Lanivet) 61 4<br>256 Wheal Maude 11 11  |  |  |  |  |  |
| 1000 Holmbush  | 128 Wheal Pollard 12 12 12 12 7   |  |  |  |  |  |
| 2048 Lanivet Consols 4 24  | 120 Wheal Reeth 27 30<br>128 Wheal Rose 60 45   |  |  |  |  |  |
| 200 Larkholes 1 8 128 Lelant Consols 90 60   | 99 Wheal Seton214 850<br>256 Wheal Sisters 291 35   |  |  |  |  |  |
| 160 Levant 90 1000 Lewis 15 6½ 1280 Llancynfelin 6 1000 Llwyn Malees 5 2600 Llynvi Iron 50 60  | 256 Wheal Sisters   |  |  |  |  |  |
| 1000 Llwyn Malees 5  | 128 Wheal St. Ann 9 15  |  |  |  |  |  |
|  | 256 Wh.Tremaine(St.Ervan) 11. 20  |  |  |  |  |  |
| 128 Ludcott 3 3 3 6000 Marke Valley 10 3 5 5000 Mendip Hills 2 1 1   | 128 Wheal Trew 20 21  |  |  |  |  |  |
| and Merionemistre State ( 11 02-91   | 92 Wheal Tryphena140 265  |  |  |  |  |  |
| 20000 Mining Co. of Ireland 7 61<br>256 New East Crowndale 35 35   | 256 Wheal Vlow (Perranz.)   |  |  |  |  |  |
| 100 North Pool 45 . 370  | 256 Wheal Williams 6 18   |  |  |  |  |  |
| 512 North Treburget 2 . 3  | FOREIGN MINES.  |  |  |  |  |  |
| & Slate Slab Co  | 15000 Asturian Mining Co 10 82<br>20000 Australian 2 4-42<br>10000 Anglo-Mexican Co 100 2   |  |  |  |  |  |
| 138 North Wh. Leisure . 1 1 . 3 1 138 North Wh. Providence 2 1 . 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |   |  |  |  |  |  |
|  | 3000 Bolanos  |  |  |  |  |  |
| 256 Pennant  | 12000 Brazilian Imperial 22 7<br>10000 Cobre Copper Co 40 18  |  |  |  |  |  |
| 100 Penrhiw 30 65  | 5000 Ditto Serip  |  |  |  |  |  |
| 1200 Old Delabole Slate Co. 25   | 10000 General Mining Ass'n. 20 154  |  |  |  |  |  |
| 512 Plymouth Wh. Yeoland 41 18<br>256 Polsaith Consols 2 4   | 1900  |  |  |  |  |  |
| 256 Polsaith Consols 2 4 2048 Prince Edward 11 11 112 Providence Mines 35 45   | 5000 Mocambas & Cocaes 25 44-5  |  |  |  |  |  |
| 956 Redruth Consols 3  | Ditto Red Debentures 20   |  |  |  |  |  |
| 256 Rose Consols 10 2  | Ditto Black ditto   |  |  |  |  |  |
| 1000 Rosewall Hill 1 5<br>256 Rosewarva Mines — 12   | Ditto Loan Notes 150 974<br>7000 Royal Santiago 10 5<br>2000 Pachuca Mines 4 44   |  |  |  |  |  |

| 1000 Rosewall Hill                                     | 4<br>15<br>28‡ | 5 44 6 2 |
|--|----------------|----------|
| SOUTH AUSTRALIAN SHARE MARKET.                         | 3000           |          |
| Shares. Company. Paid. Price. Shares. Company.         | Paid.          | Pri      |
| 2000 Adelaide 5 71 18 South Para 4 24 1000 Poonawurta  |                |          |
| 2464 Burra Burra 5 110   400 Princess Royal            | 34             | 259      |
| 436 Grand Junction 15 28   10000 Royal Mining Company  | 1              | 1        |
| 200 Greenock Creek 5 12   10000 Royal South Australian |                | 65       |
| 100000 Scottish Invest. Co 1 11 600 Victoria           | 2              | 3        |
| 500 Wakefield 2 3                                      |                |          |
| SOUTH AUSTRALIA AND NEW ZEALAND.                       | 512            |          |

"We should feel greatly obliged by agents, or others interested, furnishing us with each corrections for our Share List as we may not have received through our usual channels of information—our object being, to present as accurate a list of prices as can be obtained—to procure which, see solicit the aid of correspondents in general.

Calculation of the Control of the Co

# JOINT-STOCK BANKS.

#### LATEST CURRENT PRICES OF METALS

| LONDON, AC   | UGUST 20, 1847.  |
|--|--|
| Load on - Bar a. Wales - tos & a. 4 a. | Coffee Ordin sheets, 8. 2 8. 2 8. 2 8. 2 8. 2 8. 2 8. 2 8. |

[From our Correspondent.]

Inon.—A good business done in Welsh this week: all the makers are full of orders, and prices firm. Scotch is rather more in demand, and sales of mixed numbers are reported at 70s. In other descriptions, no change.

Tix.—Both English and Foreign continue in good demand, and business in each daily doing at quotations.

Symlym is dull, and full 10s. lower than last week, occasioned, no doubt, by the state of the money market, which is quite a barrier to purchases for exportation, for which no business of the least importance has been done during the last four weeks.

Other metals remain steady, at last week's quotations.

GLASGOW PIG-IRON TRADE, AUGUST 19.—The continued tightness of the money market still presses heavily on the article of Pig-Iron. The business done this week has been very limited. The tone of the market seems rather improved to-day: the price for mixed Nos. may be quoted at 68s. to 68s. 6d.—for cash.

mixed Nos. may be quoted at 68s. to 68s. 6d.—for cash.

THE IRQN TRADE.—Notwithstanding the depressed state of the money market, we are happy to find that the iron trade of South Siaffordshire continues in a healthy and prosperous condition; the manufacturers are full of orders, and the demand more than keeps pace with the make. This state of things, combined with the prospects of an abundant harvest and good trade, cannot fall to maintain the top quotations for all descriptions of iron; and purchasers are extremely anxious to have their orders executed at the prices agreed upon at the commencement of the present quarter. As regards the foreign trade, we learn that large orders continue to arrive with every packet from America; and as these, for the most part, come through Liverpool merchants, the greater portion of them find their way into this district. Amongst all the vicissimes which have affected various branches of industry in this country—inflicting ruin on capitalists, and subjecting the operative classes to the most severe privations, it is cheering to find, that the staple trade of our iron district has continued firm amidst all commercial mutations, and that the working classes of South Staffordshire have enjoyed, on the whole, a singular and happy exemption from the general and wide-spread distress.—Birmingham Journal.

| 8 cts. 8 cts.                     | 8 c/s. 8 cls   |
|-----------------------------------|--|
| COPPER-Sheathing 7b. 0 231 - 0 0  | Inon-Engl. & American 0 51-0 6   |
| ,, Old 0 184-0 19                 | Hoops docut, 5 50 - 6 50   |
| . Braziers' 0 24 - 0 25           | NAILS-Cut 4 dn. 40 lb. 0 44-0 4  |
| Pig 0 18 - 0 0                    | (3d 1 c. & 2d 2 c. more)   |
| Bolts 0 24 0 25                   | " Wrought, 6 to 20 0 10 - 0 14   |
| LEAD*-Pig 4 121- 0 0              | " Horse-shos 0 17 - 0 21   |
| , Bar 0 5 - 0 51                  | SHOT-Patent 0 54-0 0   |
| , Sheet 0 51-0 0                  | " Buck 0 61-0 0  |
| non-Pig, Eng. & Scotch 0 0 -30 0  | SPELTER-In plates 54 C - 0 0   |
| " , American, No. 1 0 0 -32 50    | STEEL-German 1b. 0 101- 0 13   |
| , common25 0 -27 50               | " English Hoop L 9 13 - 0 13   |
| ,, Bar, RPSI 100 0 102 50         | " Spring 0 51 — 0 5;   |
| " " Swedish 0 0 -87 50            | " Trieste boxes 0 0 - 0 0  |
| ,, American, old85 0 - 0 0        | , American 0 41-0 5  |
| " English refined 85 0 — 0 0      | Tin-Block, South Amer. 76. 0 0 - 0 0                                   |
| ,, common .72 50 -75 0            | " Ditto, East India 0 0 — 0 0  |
| Sh. Russian, 1st qual. 0 111 0 12 | " In plates, † dx. bx 9 0 — 9 25<br>1 scrap, 14; shoet, 4 cts. per lb. |

## LEAD ORES

| Sol          | d at Aberystwith, on the | 12th August, 184 | 7. DEG - WO 164785   |
|--------------|--------------------------|------------------|--|
| Mines.       | Tons.                    | Amount.          | Purchasers.  |
| Goginan      | 65                       | £14 17 6         | Newton, Keates, & Co.  |
| East Logylas | 125                      | 11 0 6           | Tamar Smelting Co.   |
| So           | ld at East Rose, on the  | 13th August, 184 | The state of the s |
| Cargoll      |                          | £14 10 0         | Tamar Smelting Co.   |
| ditto        | 10                       | 11 1 0           | Michell & Son.   |
| North Rose   | 32                       | 16 11 6          | ditto  |

# 

| A Appendix Dec. (5-6.4-6) (1989-198                                 | BLACK                             | TIN.                                | a Tokathini ili Shat-   |
|---|-----------------------------------|-------------------------------------|---|
| Mines, Drake Walls. ditto ditto ditto ditto St. Agnes Consols ditto | 4<br>7<br>4<br>1<br>1<br>1<br>184 | £47 5 0 36 0 0 22 0 0 20 0 0 43 7 6 | Calenick Smelting Co. Ditto and Williams. Calenick Smelting Co. Ditto: Daubus: Williams |

#### COPPER ORES. Sampled August 4, and Sold at Andrew's Hotel, Redruth, August 19, 1847.

| Aines. Tons.          | Price.                    | Mines. Tons.                            | Price.      |
|-----------------------|---------------------------|---|-------------|
| Devon Gt. Cons. ? 120 | £7 11 0                   | West Caradon 103                        | £6 8 0      |
| wn. maria             |                           | ditto 77                                | 6 18 6      |
| ditto 110             | . 8 5 6                   | ditto 70                                | 6 19 6      |
| ditto 88              | . 7 4 0                   | ditto 48                                | 9 4 6       |
|                       | 7 17 6                    | ditto 24                                | 4 0 6       |
| ditto 60              | 8 7 6                     | Fowey Consols 106                       | 6 10 6      |
| . ditto 56            | 6 17 0                    | ditto 105                               | 6 8 0       |
| ditto 20              | 2 19 6 1                  | ditto 99                                | 5 6 0       |
| Wh. Josiah112         | 7 17 6                    | Wh. Friendship 102                      | 7 1 0       |
| ditto 104             | . 6 3 0                   | ditto 72                                | 10 6 6      |
| ditto 78              | 10 8 6                    | ditto 61                                | 9 16 0      |
| ditto 73              | 5 17 6                    | Marke Valley 130                        | 3 4 0       |
| ditto . 38            | . 8 19 6                  | Bedford United 104                      | 9 12 0      |
| Wh. Fanny 94          | 6 7 0                     | Holmbush 64                             | 5 13 6      |
| ditto 75              | . 7 13 6                  | Wh. Gorland 12                          | 8 3 6       |
| ditto 40              | 5 9 6                     | or and the average and a reservation of | 0.000000000 |
| THE RESERVE AND       | TOTAL P                   |   | 2001        |
| Devon Gt. Cons. 7     | for statement of the last | Wh. Friendship 235 £2                   | 060 6 0     |

-Wh. Maria 1140 ... £8344 13 0 Marke Valley ... 130 ... 416 0 0 Wh. Fanny ... 140 ... £8344 13 0 Bedford United ... 164 ... 998 8 0 Wh. Josish ... 164 ... 164 ... 998 8 0 Bedford United ... 998 8 0 Bedford United ... 164 ... 998 8 0 Bedford United ... 998 8 0 Bedford United ... 164 ... 998 8 0 Bedford United ... 998 84

| LA  | ST SALE Average Standard £106 16 0   | Average Pr | roduce   |   |
|-----|--------------------------------------|------------|----------|---|
|     | COMPANIES BY WHOM THE ORES V         |            |          |   |
|     | Mines. Mines Royal                   | Tons. 94   | € 610 13 | 0 |
| J.F | English Copper Company               | 216        | 1801 6   | 0 |
|     | Freeman and Co. Crown Copper Company | 215        | 1352 10  | 6 |
|     | Sims, Willyams, and Co               | 857        | 3863 7   |   |
|     | Williams, Foster, and Co             | 923        | 7174 9   | 1 |

Copper cres for sale on Thursday next, at Andrew's Hotel, Redruth.—Mines and Par-cels.—United Mines 1170—South Caradon 354—Tresavean 286—Par Consels 283—West Wheal Jewel 184—Treleigh Consels 174—West Trethellan 80—South Tolgus 35—North Downs 16—East Downs 9.—Total, 2591 Ional, 2501 Ional, 250

Total tons ........... 2317 £16,364 11 6

Copper oves for sale on Thursday week, at Serpeirs Hetes, russ.—North Roakear 544.—Consolidated Mines 659.—Timeroft 405—Whe Consols 268.—South Wheal Francis, 253.—Creeg Braws 178.—South Bucketts 100.—Lanivet Consols 93.—Wheal Harrist 74.—South Who Seton 44.—Wheal Busy 42.—Wheal Tryphena 37.—Tretoll 12.—Wheal

The following are the Companies by whom the Ores were Purel

|    | SALE of August 12, 184                          | 17:- | E-2000 | 138.81  | 180 | 500 |     |  |
|----|---|------|--------|---------|-----|-----|-----|--|
|    | age his boundaries and but the little will will |      |        | Amount. |     |     |     |  |
| ĸ. | English Copper                                  | 185  |        | £4434   | 11  |     | k   |  |
|    | Freeman and Co                                  |      |        |         |     |     | 2.  |  |
|    | Grenfell and Sons                               |      |        |         |     |     |     |  |
| Ŋ  | Sime, Willyams, and Co                          | 200  |        | 3481    | 0   | 100 |     |  |
| 13 | Vivian and Sons                                 | 736  |        | 10615   | 200 | 87  |     |  |
|    | Williams, Foster, and Co                        | 570  | ****   | 8340    | 30  |     | ži. |  |

Total tons. 2058

Copper tres for sale August 26.—Cobre 56, ditto 91, sittle
—Knockmahom 118, ditto 103, ditto 63, ditto 61.—Burraditto 50, ditto 16, ditto 33.—Berchaves 108, ditto 94
ditto 53.—Cronebane 53, ditto 43, ditto 28, ditto 26, ditto 26
—Copiapo 95, ditto 63, ditto 46.—Kapanda 96, ditto 53, ditto
—Sydney 92.—Chili 61.—Luckamoore 30, ditto 11

Total, 2521 4008.

#### NOTICES TO CORRESPONDENTS.

uld alw

-The Wheal Maria shares are quoted under the name of Devon Great Corbeing the title of the company owning the mines.

. G. N.—The statement can only appear as an advertisement.

f." (Truro).—We are obliged by the transmission of all local is appra, containing matters interesting to our readers.

## MINING JOURNAL Railway and Commercial Sagette.

LONDON, AUGUST 21, 1847.

Our correspondent, " A Flintshire Lead Smelter," in his commumication in last week's Journal, accuses us of promulgating fallacies in our statements, relative to the mode of selling lead ores at Swan-sea; and, having since made inquiries, which have put us in possession of correct information, we unhesitatingly repeat, that those statements were substantially correct; and it is clear that the object of the "Flintshire Lead Smelter" is to mystify the subject, statements were substantially correct; and it is clear that the opject of the "Flintshire Lead Smolter" is to mystify the subject, prevent further discussion, and keep things as they are. It is true that lead ores are sold in the Dee market by tickets, and upon certain appointed days; but the number of bidders now never exceeds four, and for certain classes of ore is limited to two (perhaps our "Flintshire Lead Smelter" is one); and nothing like competition, therefore, exists. With respect to the fall in the price of ore, we are prepared to prove our fallacious statements from the ticketing (?) papers. On the 22d March last, a parcel of Logylas ores, as asying 75 per cent., sold for 10l. 18s. 6d. per ton; and, in April, a similar parcel, 11l. per ton—thus averaging 10l. 19s. 3d.; while, on the 16th of June, two parcels from the same mine, assaying 76 per cent., obtained only 8l. 17s. and 9s. 1s. 6d. respectively, averaging 8l. 19s. 3d. per ton—thus, with the higher produce, showing a fall of 20 per cent. within a fraction. Then to take a richer ore:—a parcel from Llanfair was sold in March for 25l. per ton, and only 21l. in June. There has been certainly no equivalent fall in Cornish silver-lead ores. There has been, and is, a sad want of vigour in the lead ore trade in North Wales; more smelting-houses are wanted, especially one in the locality of the Whitehaven coal-field, to take specially one in the locality of the Whitehaven coal-field, to take the ores from the Isle of Man, the Cumberland districts, the north of Ireland and Scotland. The business is simple, and involves no very heavy capital; and very little improvement has taken place in the manipulation for the last 50 years. We shall continue our endeavours to obtain every information, and keep alive the subject, which we consider of the first importance, more particularly as large unexplored silver-lead districts in both North and South Wales are likely soon to be brought into productive operation. Some imthe sphered sinverseas districts in our recent and south water and likely soon to be brought into productive operation. Some im-provements in silverslead smelting are also expected soon to be intro-duced, in which the condensation of the vapours is the principal object.

We have had our attention directed to an article in the South Australian Register of January 20th last—the tenor of which is to show the great importance of establishing a direct communication between Adelaide and Swansea, in order that the copper ores of the colony may be transported, in the most economical way, to "the great copper smelting mart in Wales." The writer of the article in question, states the principal impediments to this desirable object to be, the want of accommodation in the port of Swansea for vessels suitable for foreign voyages—the harbour being a tidal one, and that not of the best description, where the vessels ground on the last of the covery tide, and the want of suitable. reflux of every tide—and the want of suitable, manufactured goods to reload them on their outward voyage. These are, certainly, very serious objections; and the writer goes on to say, that "many vessels object altogether to chartering for Swansea; and the generality of vessels demand a largely-increased freight in chartering from South America to Swansea above the current freight to Liverpool—the practical result of which is, that copper ores are shipped from South America to Liverpool, whence they are transhipped, at great cost and loss, to Swansea in coasters." Now, in the latter part of cost and loss, to Swansen in coasters." Now, in the latter part of this paragraph, the writer, either from ignorance, or some motive of his own, overlooks the fact of there being copper smelting-works, and a "mart for copper ore" at Liverpool, and that three-fourths of all the South American ore imported into Liverpool is sold and smelted on the spot—thus not only saving both the "cost and loss" of translationary to Swansea, but securing a more speedy return for of transhipment to Swansea, but securing a more speedy return for the capital invested. In fact, no importer, or consignee, of ore into Liverpool, who is free to deal with the article in the most advan-Liverpool, who is free to deal with the article in the most advantageous manner, ever dreams of sending it for sale to Swansea, while he can obtain an equally good price at his ship's side in Liverpool. The fact of copper ore being saleable at Liverpool, at prices equal to what it is at Swansea, we think is not sufficiently known, if known at all, in South Australia; for to Liverpool, which is now the greatest port in the world, vessels readily charter from any part of the globe at the lowest current rates of freight; and there is no of the globe at the lowest current rates of freight; and there is no port which offers so great a choice of outward cargo to reload the ahips that have discharged therein. Instead, therefore, of our mining friends in South Australia troubling themselves in establishing a direct intercourse with Swausea, we recommend them to avail themselves of the much greater facilities which Liverpool offers ready to their hands; and the more so, as at Liverpool there is a market for lead ore, as well as for copper. The lead ores which have been sent to London from South Australia, have been transhipped either to Liverpool or to Newcastle-upon-Tyne. In several points of view, we consider this an important matter, and recomglobe points of view, we consider this an important matter, and recom-mend it to the attention of those engaged in foreign mining, and hope again to refer to it.

We have much pleasure in calling attention to an article in an-We have much pleasure in calling attention to an article in another column, on the progress and improvements which have been made in the elastic atmospheric railway tube, which we have adverted to on many former occasione; and, as we consider that the system of atmospheric propulsion is by this invention practically established, we here make a few remarks on its economy. That the stationary engine, as to economy, is far superior to the locomotive, is now universally allowed; and, admitting the complete success of stationary engine, as to economy, is far superior to the locomotive, is now universally allowed; and, admitting the complete success of the elastic tube, we have here increased economy for every improvement made in the stationary engine. There are, at the present time, many of our first-rate Cornish engineers, who would guarantee to construct engines suitable for atmospheric railways, which shall consume only 3 lbs. of coal per horse power per hour—thus the power is generated under the cheapest possible conditions, and that power applied with the least possible loss; while, on the locomotive system, full 50 per cent. of the power is wasted in moving the engine and tender. For wear and tear, on the elastic tube system, the cost would not exceed 121. 10s. per mile per annum, and that would be for repairs to the stationary engine; while, on the locomotive system, it is, perhaps, near 4001, per mile per annum. The heaviest weight on one pair of wheels would be scarcely 2 tons, while the driving wheels of a locomotive engine have to bear 12 tons—thus reducing the cost for maintenance of way in the proportion of 12 to 2. These are not mere theoretical surmises, but practical facts, as the working on the Blackwall, and other lines, fully proves. The principal failure hitherto, in carrying out the atmospheric railway suc-

cessfully, has been the inefficiency of the valve and joints. The clastic tube has overcome this, and every other, difficulty; and to decry the system itself, because had machinery has been constructed, would be as reasonable as to say, a locomotive engine could not travel 10 miles an hour, because in the early days of their construction they could not accomplish fire.

We have, in another place, noticed a pamphlet by Mr. Burmingham, on the means of improving Ireland and the Irish, and we cannot help calling attention to the importance which would attach to the introduction of this system into both Ireland and America—in the latter country particularly, the forests would supply timber for rails, and lines of railway might be constructed for a more trifle, compared with the benefits they would hereafter confer. Convinced, as we are, of the soundness of the theory of atmospheric traction, and of the perfect capability of the elastic tube for carrying it out, we shall now wait, with some anxiety, to see it taken up for useful we shall now wait, with some anxiety, to see it taken up for useful purposes, as we understand several negociations are going on with directors of new lines of railway, as to its adoption.

Although we have more than once pointed, with a tolerably clear finger, to the causes which have produced the present stiffness in the etary interests of the kingdom, we have never supposed that the whole of the particulars were enumerated, or that we had, in the whole of the particulars were enumerated, or that we had, in any sense, exhansted the subject. Undoubtedly, the blow imposed on our industry, by the late Irish calamity, is one under the effects of which we are still staggering; and considering the force and concentration of the stroke, the wonder is—not that we recled so deeply, but rather that we rallied so quickly—and that this gallant nation is nearly up again, and training its lately-tested powers for the next encounter, which Providence may appoint us in our long and brilliant march to empire. With tackle a little torn we are rapidly reaching to windward, having stood up against the vigorous dawn, and the mid-day strength, and the concluding fury of the great Irish storm. It was in this tempest certainly, and in no other, that the and the mid-day strength, and the concluding fury of the great Irish storm. It was in this tempest certainly, and in no other, that the wounds, which at this moment mar the national visage, were received. It was not the absorption of our capital in mines, or railways, or in any other branch of industrial occupation, that straitened our resources, and lowered the money pulse of this industrious people. On the contrary, the sums dedicated to these reproductive works have sustained the imperial revenue, and fed the labouring masses throughout the crisis, from which we are now emerging. The plain, the demonstrative truth, is just this—that to moderate the severity of the Irish visitation, we were driven into the market of the foreigner, where we must needs accomplish our ervand. We had no option: for however immediately, and in whatever form, of the foreigner, where we must needs accomplish our ervand. We had no option; for, however immediately, and in whatever form, payment was to be made, it was our solenn duty to import breadstuffs, in quantities commensurate with the breadth of our unparalleled necessity; in fact, we laid out in the foreign market a sum nothing short of 15,000,000 sterling. This turned at once the halance of trade and the foreign exchanges against us; to restore the statu qm; and discharge the debts incurred by the extent of our cereal importations, we have now, for some six months past, been heavily exporting the precious metals. This is, so we think, a fair and a clear statement of the case; and how, in the presence of cause and effect, so intelligible and so traceable, in the face of circumstances so notorious, the great political journal of the day can attribute our money difficulties to the ontlay on mines and vaileays, to either, or to both, is to us at once amazing and depiorable. But things are changing—to all human appearances the god of harvests is about to fill our barns with plenteousness. Let us secure that blessing; and then let us see if the tide of wealth, which has been ebbing from us westward across the Atlantic, and enstward into the Black Sea, does not flow back again upon our shores to reinvigorate and revive the whole circle of our commerce. Our expectation is, that every week's quotation of shares will, from this date, be an improvement upon the preceding quotations; that the wealth won this year from the soil will restore us—not to the point at which we were in 1845—but will do much to bring us near to that desirable eminence; and, for ourselves, with this assured hope, we shall wait and watch the growth of events, and witness, unless we greatly err, the rapid re-establishment of the national fortunes, expressing, at the same time, our conviction, that they have been shaken very little, and impaired not at all, by the sums expended expressing, at the same time, our conviction, that they have been shaken very little, and impaired not at all, by the sums expended on mines and railways

In another part of this day's Journal will be found a report of the In another part of this day's souther with the Company, and which, annual meeting of the Universest Salvage Company, and which, we are happy to say, terminated with much more likely symptoms we are happy to say, terminated with much more likely symptoms. we are happy to say, terminated with much more likely symptoms of conciliation and arrangement than have been witnessed at many former meetings. Our readers will remember that this company was formed for working a patent obtained by Capt. Austras, for raising sunken vessels, and which plan always has been, and is still considered to be, a most valuable one, had it been but carried out with anything like spirit; and with amanimity among the shareholders and directors. Unkappily, differences arose among them, and for several years business has been little more than dumbehow. We trust, however, that now, even at the eleventh hour, a little feeling is evincing itself: the admission of reporters on this occafeeling is evincing itself: the admission of reporters on this occasion, which was agreed to by a majority on a show of hands, is, w sion, which was agreed to by a majority on a show of hands, is, we trust, a precedent for the future, and a guarantee of reformation; and it is much to be hoped, as it is to be desired, that by the directors together giving up claims to about 1000L, and the shareholders freely coming forward with their deposits and calls due, the company may be immediately freed from debt, and be yet placed in a position to carry out the objects for which it was established, to the benefit of themselves and the public, as it will now be placed under the direction of the naturates. the direction of the patentee

We have frequently attempted, by our advocacy of the mis districts of Wales, to direct attention to mining generally in We have frequently attempted, by our advocacy of the mineral districts of Wales, to direct attention to mining generally in this important portion of Great Britain. We have done this from a personal knowledge of the mineralogy, of the mountainous parts especially, of the principality—the fitcility afforded by its position, and the preference which we give to the employment of native industry, to that of exploring the ill-nemunerating mines in foreign countries. Although there are a great many highly productive mines in course of operation, still mining may be considered as being in its infancy there; and there appears to be generally an indisposition on the part of the natives, or local residents, to make a sufficient outlay of capital to bring a mine into a state of permanent working and necessitions. there; and there appears to be generally an indisposition on the part of the natives, or local residents, to make a sufficient outlay of capital to bring a mine into a state of permanent working and profit—this we attribute to the fact of the facility afforded of opening on the lodes, and obtaining immediate returns, and a disincilination to expend the profit once realised in the erection of machinery, sinking of shafts, or extension of levels, to reader the same a good and lasting mine. We are drawn to these remarks, from the knowledge of several mines of late which were in that position, and have now passed into the hands of those who, by perseverance and judicious employment of capital, will, no doubt, make them a source of permanent wealth; and, therefore, notice the recent purchase of the Bwich Consolidated Mines (adjoining the well-known Goginan Mines), in Cardiganshire, by a London company, who immediately commenced the erection of the necessary machinery and requisite appliances, which alone precluded the farmer proprietors from obtaining more than a decreasing monthly profit, which, to the present company, will ultimately become one of increase and stability. As we purpose going into further notice of these mines, we shall, in passing, merely observe, that the Dyfigwm Lead Mine, in Montgomeryshire (a report and notice of which will be found in another column), was dragging out a slow existence, until the present enterprising company obtained possession. Carmarthen Consols, near the town of Carmarthen, may be looked upon as in a similar position; but, as we purpose entering upon the matter again, we shall be prepared with such statistical information that will fully bear out the subject proposed.

SHEATHING FOR FRENCH VESSEER.—The Minister of Marine has given order that several experiments shall be made to test the quality of copper shasthing employed in Eugland and France, for the coppering of vessels, as that at parent used in the Franch Navy and merchant service acon corrodes, as has be proved by the recent report on the state of the bottoms of the steamers, for gates, and other ships of war, where French copper has been employed insteas of British, as hitherto, and will have to be recoppered as soon as the superiority of the one over the other is fully proved. The copper manufactured in France is of a very soft nature, very corrosive, and but little adapted, sittle for marine purposes, boilers, or ateam-engines, if not mixed with English metal Letters from Amsterdam mention that the Minister for the Colonies has opened negotiations respecting the purchase of the produce, during the next 10 years, of the Banca Tin Mines.

We learn, by the Loke Superior News, of June 26, that Mr. O. H. Mating of the Banca Tin Mines.

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We learn, by the Lake Superior News, of June 26, that Mr. O. H. Mathelake of Cornwall, now the chief representative of the Quebec and Lake Super Company, has been out there several weeks, making the Sast Sts. Marie head quarters.

We learn, by the Lack Superior Company, has been out there several weeks, making the Sant Ste. Marie his head quarters.

The St. Petersburgh Januaral of the 6th says—"During 1846 a new stratum of gold and was discovered at a short distance from the village of Kommar, and the mine of Verkh-Neivinak. It is situated near the high road which lead through the wood near the latter place. It bids fair to be a very valuable discovery."

COPPER ORE FROM CHIMA.—The vessel, Mary Banaatyns, just arrived from Canton, has brought, in addition to a general cargo of merchandise, 50 tons of copper ore, the production of the Chinese Empire—should this be the white copper of China, it will prove a novel and interesting importation.

THE COPPER TRADE.—We have seen letters from Valparaise, received from a leading house, from one of which we give the following extract:—"Copper ore are in good demand for Hamburgh and North America, and very little procurable. The smelters from both countries are very anxiously writing for supplies, and reports are favourable of the result of fins new branch of industry, that the copper ore daties in England have opened."

The Recue du Havre states that a young chemist of that town has invented a system of lights for ports and coasts, consisting of a thick globe of glass, in which is enclosed a preparation giving a light like that of the moon, and the cost of which for one year will not exceed a franc.

The Duke of Northumberland, or Thursday last, paid a visit to the locomotive engine manufactory of Mesars. Stephenson and Co., in this town, and inspected the mechanical arrangements of that extensive extablishment, with which his grace expressed himself highly gratified.—Nexecostle Journal.

Mr. Brunel, engineer to the Great Western Bailway Company, went over the line between this city and Cheltenham on Sunday last, and we understand that trains will be worked between the lafter town and the metropolif on and after the 25th inst.—Glossestershue Chronicle.

FALL OF RAILWAY Abelies.—On Tuesday, four str

The Emperora of Russia and Austria have forbilities any person construct lines of magnetic telegraph in their respective domin-neir special permission.

and killed two labourers. Ones, Jonas Filling, was hilled on the spot; the other, Thomas Morris, died about two hours after the necident.—Hull Packet.

The Emperors of Russia and Austria have fortifiden any person or company to construct lines of magnetic selegraph in their respective dominions, without their special permission.

The directors of the New York and Buffalo Tedgraphite Company, at their recent meeting in Utica, resolved to use in their operations an iron wire known as No. 10, weighing about 250 lbss to the mile. The Englishe comparise adopt were called No. 7, which is much heavier and more lasting.

The transport Granspos in Markera.—When the Ringishe comparise adopt were called No. 7, which is much heavier and more lasting.

The standard Catagons in Markera.—When the Wheeling, the first one high two of the charges will be as follows:—From Wheeling to Philadelphis, 50 cents for 10 words. To words from Wheeling to New York, 252 cents for 10 words. To get 10 words from Wheeling to New York, 252 cents for 10 words. To get 10 words from Wheeling to New York, 252 cents for 10 words. To get 10 words from Wheeling to New York, 252 cents for 10 words. To get 10 words from Wheeling to New York costs 90 cents which is to high; which were the should be done, for it is and the question has been agitated with some of the companies of abolishing the use of all systems of above the course of the trial to abow that the feeling of the court and the jury slow was with the declinant. The facts may be bringly rated thus y—In the autumn of 1840, a preject was started in England under the engage in the propector was subset in England. Mr. BiOstrich, of Cels, seeing the scrip and in protein the provisors of the leading papers. Of course, there were numerous applicat

NATURAL GAS JUTS — A correspondent informs us, that in the village of Wig-ore in Hertfordshire, U.S., there are fields which may be, and two houses which sally are, lit up with a natural gas. This vapour, with which the adjacent strate really are, lift up with a natural gas. This vapour, with which the sdi seems to be charged, is obtained in the following manner:— A has in the cellar of the house, or ether locality, with an iron red; a hot then placed therein, fitted with a burner, similar to those used for a lights—and immediately or applying a flame to the jet, a soft and br. is obtained, which may be kept burning as pleasure. The gas is quite free from any offensive smell, and does not stain the ceilings, rally the case with the manufactured article. Besides lighting ro has been used for cooling; and, indeed, seems capable of the same as prepared carburetted hydrogen. There are several fields in white momenon exists, and children are seen boring holes, and esting gas amusement. It is now about 12 menths since the discovery was a great many of the carious have visited, and still continue to visit.

EXTLACABLE CALIB.—In some of our English contemporal need paragraphs relating to the extraordinary size of the grain of ferent localities. On the farm of Bwich, in the parish of Abergwe county, in the occupation of the owner, Mr. William Williams, the which will not suffer by comparison with those we have mentions farm in question there is a crop of wheat, the length of the stalk bein the ear being 7½ in, long, and containing 56 corns. On the same, are the stalk in the size of the greater part of the crop.—Carmarthen July 100 corns, and this is the size of the greater part of the crop.—Carmarthen July 100 corns.

## PROCRESS OF FRENCH MINING INDUSTRY.

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PROCRESS OF FRENCH MINING PNDUSTRY.

[FROM ONE PARTS COMPARISH.]

The Union, of St. Etienne, of last Sunday, announces that a judicial investigation into the complaints made against the Company of the Mines of the Loire is about to take place. I have not yet had time to ascertain whether this statement be true or false; but the probability is, that it is well founded, as it is made by a journal, which, on local matters, is generally well informed. If true, the investigation has, no doubt, been undertaken, if not by the express order, at least by the tacit permission, of the Government. The St. Etienne paper warmly congratulates its readers on the measure, which it seems to imagine will be the death blow of the company; but I apprehend a very different result. Even if all the sad things that are said of the company be true, it will, I am certain, be found to strong to be put down easily.

The following questions are represented to contain the sum and substance of all the weighty necusations heaped on the company:—"1. What means did it employ to distribute the shares which were created on the foundation of the groupes of mines, which have since united?—2. Has not the personnel of the company been formed without any regard to personal merit or acquired rights? In organising it, were not the solicitations of intrigue more listened to than the just inquiries of good management? (Supposing that were so, what is it to the public?)—3. Is not the existence of the miners abandoned to the capteres and solishness of the company? Have we not to deplore the absence of the guarantees and of the securities, so necessary to their present and future welfare? Why have not the promises in their behalf, which were so emphatically made, been realised?—4. Is not the public consumption given up to the campiotence and selfishness of the company?—5. Is the position of the dissenting lesses of coal-pits tenable? Are not their complaints diaregarded—their interests threatened with ruin—because they have thought it right not to make certai

which were called into existence by railways, and will lead to no end of gambling speculation.

The civil tribunal of the Seine has declared the dissolution of the company formed for working the coal mines of Bully and Fragny, in consequence of squabbles between the shareholders—some refusing to pay up their calls, &c., &c.

M. Talabot, the ironmaster, is very severely blamed for having taken upon himself, as a director of the Lyons and Avignon Railway Company, to say that the shareholders would accept the arrangement proposed, with respect to the line, though, to get out of that arrangement, they have taken the extreme step of dissolving the company. Query—Did M. Talabot expect to have the privilege of supplying the company that have the privilege of supplying the company that have the privilege of supplying the company with rails, chairs, botts, &c., &c.?

respect to have the privilege of supplying the company. Query—Did M. Talabot expect to have the privilege of supplying the company with rails, chairs, bolts, &c., &c.?

The newspapers publish an extract from a St. Petersburgh journal, stating that a new deposit of very rich auriferous sand was last year discovered at a short distance from the village of Kounara, and at 30 verstes from the mine of Verkh-Neivinsk. The yield is said to be 1948 zolinks of gold per 100 pouds of sand, and the deposit is represented to be of some extent.

The shareholders of the furnaces, &c., of Gougnies, are convoked in general assembly for 15th September next. The shareholders of the furnaces of Valence are to have a meeting on the 22d, for the purpose of taking measures for raising a loan. Those of the Hauts-Fourneaux of the Rhone and the Loire are to meet on the 25th; and those of the Mines Royales of Villefort and Vialas on the same day.

The St. Dizier letter of the 12th, says:—"Gurestablishments will, probably, be without demands until after the adjudication of wood shall have taken place, unless a decline in prices shall cause dealers to buy. The last quotations are maintained. The adjudication of the wood of the king's private forests will take place on the 9th September.

Within the last fortsight of the present month the Alais (Gard) Iron-Works, &c., at 5400 fr. (a premium of 2400 fr.); the Decazeville Iron-Works, &c., at 5400 fr. (cost of share 5000 fr.); the Nord Iron-Works, 1350 fr. (1000 fr. shares); the Loire and Ardeche Iron-Works, 6900 fr.; and the Montagne (sine) have been done at \$100 fr.; the Ord Iron-Works, 1050 fr. (1000 fr. shares); the Loire and Ardeche Iron-Works, 6900 fr.; and the Montagne (sine) have been done at \$600 fr.; the Grande Montagne, 1050 fr. (750 fr. per share paid up); the Stolberg, 1850 fr. (750 fr. shares); the Company Valentin Cocq, 875 fr. (500 fr. shares); the Nonvelle Montagne at 1200 fr. per share paid up); the Stolberg, 1850 fr. (750 fr. shares); the Company Valentin Cocq, 875 fr. (500

Belgium.—A royal ordinance has just authorised, as a societé anonyme, the company for working coal-pits at Belle Vue, Baisieux, Dour, and Thulia, which was formed the 17th May last. The capital of the company is fixed at 4,500,690 fr., in 9900 shares, of 500 fr. The duration of the societé is fixed at 90 years, but will be dissolved, if the losses shall equal half the capital, or if the holders of two-thirds of the shares shall desire it.

The Emperor of Russia has ordered a number of steam-engines of the establishment of Seraing, for vessels to serve on the Volga. Some of them have already been sent off to St. Petersburg.—Brussels, Tuesday.

## THE GREAT COAL COMPANY OF THE LOIRE, IN FRANCE.

Our readers are aware that, some time ago, the greater part of the separate concessions of coal mines, in the department of the Loire, in France, was united into the hands of one company, under the name of Compagnie Generale des Mines de la Loire. This company possesses 27 concessions in 61; 4744 hectares of extent of coal fields out of a total of 21,000 hectares, which contain a quantity of coal, either actually ascertained, or presumed to exist, of 3,399,602,000 metrical quintals—that is to say, about two-thirds of the total quantity of coal contained in the richest and most extensive beain of all France. This virtually made the company a formidable monopolist, and it excited the public alarm to such an extent, that the Government was called on to put down the company as dangerous and illegal. In a debate in the Chamvirtually made the company a formidable monopolist, and it excited the public alarm to such an extent, that the Government was called on to put down the company as dangerous and illegal. In a debate in the Chamber of Deputies, the Minister of Public Works declared that there was nothing illegal in the company uniting in its own hands such a vast extent of coal field; but he said that if it made an abusive use of its power, either to increase unjustly the price of coal, or to reduce unjustly the wages of the miners, or if it should leave any of the coal pits comprised in its concession unworked, the laws gave the Government the right to interfere, and he pledged himself, that it would interfere for the protection of the public. Since then, the company has been the object of incessant attacks from the inhabitants of the coal districts, the inhabitants and municipal council of St. Etienne, the press of the departments and the capital, &c. At length (it was in December, 1846), the Minister of Public Works formed a commission to inquire into the constitution and working of the company. For the information of this commission, the company saused a document to be drawn, which it calls "Notes and Considerations submitted by the Company to the Commission." As the statements in this document are, in the main, true, and as they give the reader a fair idea of the real question pending between the public on the one hand, and the company on the other, we have thought that we could not do better than make an abst-act of it.

The "Notes" of the company begin by stating, that the Compagnie des Mines de la Loire was formed in 1837, after the disasters occasioned by the general inundation of the basin of the Loire. Its object was to snite,

in one, association, the greater part of the concessions of the coal basin. Experience, it says, has proved that the existence on one point, and in a state of isolation, of a multitude of pits in the hands of different persons, all supplying the same market, and yet under very different conditions, as regarded the production, was a problem, the solution of which could only be the ruin of the persons possessing the pits, the neglect of the workings, meanness in expense, waste of coal, incendiaries, and inundations. But, for eight years, the company was in a languishing state, the amalgamations of concessions which it had effected not being sufficiently numerous to secure its prosperity, the holders of the other concessions not contenting themselves with their fair share of the market. At last, in November, 1845, the company attained the object it desired—two-thirds of the basin were placed under its control. The result of this concentration, it says, was to put an end to the war between the different mines, in leaving, however, a large field open to competition. It saved, it adds, both private and general interests.

The company then goes on to say, that the reason why it has excited so much hostility is, that it put an end to the very profitable business which a crowd of persons contrived to make from the drawing up of deeds of sale, the failures, the loans, the actions at law, the disputes, &c., &c., to which the mines, when in the hands of isolated proprietors, continually gave rise. The amount annually that was expended in this way is estimated at 20,000.

The company proceeds to examine the alleged illegality of its association. It shows, from the law of 1810, which is, as it were, the Magna Charter of mines in France, that the union of several concessions of coalpits in the hands of one company, or individual, is expressly allowed by the 31st clause, on condition that the working of each shall always be kept in activity. It shows that no objection was felt by the Legislature to such union—inasmuch as, in 1

#### GENERAL MINING MART AND CLUB HOUSE. .

The mining interest which has for centuries held a distinguished place among the productive classes, as representing some of the most important of the staple productions of this country, has now arrived at a position which gives it a consideration equal to any other in the community. London may be said to be the very focus of mining business, in which city the majority of the English mines are represented, and where the system is supported by the largest capitalists in the world. Under these circumstances, it is not a little singular that, while every other large interest has its public institution, where its votaties can meet to transact their business, in mining transactions the only situations for information, discussion, and settlement, are the offices of the several mining sharebrokers. Several attempts have been made to establish what the prospectuses have held out should be a public institution of this description; but they have—from what cause we need not stop to inquire—merged into mere private offices. We have now before us another prospectus, in which it is proposed to establish a General Ministon Mark and Club House, in which it is proposed to establish a General Ministon Mark and Club House, in a central situation in London, and accessible to members, who shall be deemed eligible on payment of 44. 4s. per annum. The advantages offered in the prospectus are—that every member's letters will be received, and his address always known; have the benefit of public rooms and private boxes for the transaction of business; the "mining" and all the leading journals of the day will be taken in; refreshments will be supplied at little more than cost price; no fees; every faculty afforded for communication with the several railway stations, with every accommodation which can possibly be given by such an establishment. We have always considered that an institution of the kind would not only answer well to the proprietors, but also confer a very great benefit on the mining public. But to inspire confidence, and th

## MINING ASSURANCE SOCIETY.

### A PLAN TO ESTABLISH AN ASSURANCE SOCIETY AMONGST THE MEMBERS OF

A PLAN TO ESTABLISH AM ASSURANCE SOCIETY.

A PLAN TO ESTABLISH AM ASSURANCE SOCIETY AMONGST THE MEMBERS OF THE MINING PROFESSION.

This increased charges for animal premiums, as made by a general combination of the existing assurance companies, upon the body of miners, is a subject of such general complaint amongst parties extensively engaged in mining operations, who annually devote much time and capital to the development of the mineral resources of this country, that it is surprising there is not at present a well regulated and economical system of life assurance among the profession. It is universally admitted, that the absence of such an office has entailed fanumerable evils, under which the mining interest has hitherto surfered, and which it will continue to depress, until a system be adopted embracing an equitable mode of transacting the business of life assurance.

Although the great interest which attaches to the operations of mining have for a time engressed our attention, the importance of this subject has not been overlooked. There has been under consideration, admiring many successive months, the formation of an assurance society, to afford all the advantages which life assurance confers, without the arbitrary imposition of extra premiums.

This proposition is of vast interest to the mining community, which, if successful, will be an opech in its history. It has been made the subject of anxious deliberation, and the various plans suggested by many of those instressed in its success—the miners—have been duly weighed in all their details, objections considered, and improvements adopted, and we now purpose to direct of the attention of the readers of the Mining Journal.

To obviate the evil, the plan is founded upon the following considerations—vis.:

1. As a measure of self-defence, in consequence of existing offices making a considerably higher scale of charges in the annual prumiums upon miners, beyond the ordinary risks, than experience has hitherto shown to be necessary.

2. Life offices every wh

ever modification, or contingency, of risk. The novelty and vast advantages of the scheme consists in effecting assumances on invalid and decoased lives—on persons engaged in hazardous and dangerous undertakings at equitable rates of premiums, which existing life offices undertake only upon recolving exorbitant scales of premiums, which existing life offices undertake only upon recolving exorbitant scales of premiums, a large class, therefore, has hitherto been debarred from the application of life assurance, by the operations of most existing assurance companies. This society to be a projectory office, the capital to be supplied by shares, which is proposed to have a fixed rate of interest, and to be paid off as soon as the funds will permit, if deemed expedient. The profits of the society to apply thus "four-fifts to be divided among the assurers—the other portion to the shareholders, together with the business arising from ions, annutics, reversionary interests, &c. Estimating the vest amount of assurances which the mining interests may yearly effect, and which will be in their power to bring to their own office, there is little doubt that in a very few years the profits will provide a handsome bonus to all its members, and the society qualt, if not surpass, that of any similar establishment. Every care and, attention will be paid to obtain ample security for the interest of assurers that experience can suggest. A competent and responsible discounts—the object is only, that the legitimate profits derived from life assurance should be applied to the interests of since connected with mining, and he secured to their own beauty witnessed in the number of life assurance companies, are sufficient to supply the warns of all classes; but there is no differ dentified with the interest of the industry consistency to secure to the profession the entire roof to of their own busines.

This is necessarily but a perco outline of the selume, the details of which will form the subject of another a tick will be interest to of

## AMENDMENT OF THE PATENT LAWS-No. II.

Besides being the most expensive of all systems of patient law, that now existing in this country is, in many respects, the least protective, and the most onerous to the inventor and patentee. A serious difficulty presents itself to many inventors as the very outset. It is found that a provision of the law, originally intended for their benefit, is, as far as they are concerned, a fruitful source of inconvenience and evil: this is the plan of granting patents upon titles only, without requiring the deposit of a particular description of the nature of the invention, until a period of some souths after the date of the patent. Thus, an inventor may obtain a partent without any further description than this.—'Improvements in rail-way carriages,' leaving she nature of such improvements to be guessed at until the time for enrolling; the specification thereof has run out. This provision of the law is confessedly for the purpose of allowing the inventor into the experiment with his invention, and make it of allowing the inventor into the content of the content of the purpose of allowing the inventor into the content of the part of the law is confessedly for the purpose of allowing the inventor into the content of the provision of the law is confessedly for the purpose of allowing the inventor into the content of the provision of the law is confessedly for the purpose of allowing the inventor into the content of the provision of the law is confessed to the purpose of allowing the inventor into the content of the provision of the law is content to the results from it. The inventor fined himself in such cases in this position:—that his patent must be taken out at the risk of proving similar to some of those standing upon the list as granted, but not yet specified; and, worse than that, that, it will, when obtained, until these patents are specified out of the way, be of no benefit to him, because the making

payments, and protected from the day of applications, and protected from the day of applications, and may rest in peace.

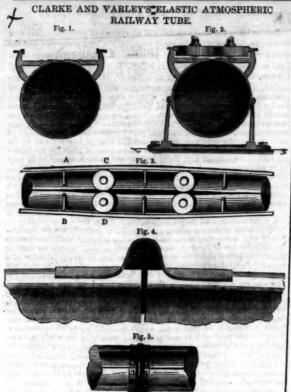
But though the system of granting patents, when thus modified, will present a smooth surface for the operations of the intending patentee, he will, when he obtains his patent, find the law relating to sustaining and upholding them very rugged, unless some alterations be made therein, of a character I will point out in my next.

Patent Office, 210 Strand, August 16.

SAFETY APPARATUS FOR ASCENDING AND DESCENDING SHAFTS, &c.-We have seen a model of an apparatus for raising and lowering heavy weights in mines, so constructed that, in the event of the rope or chain breaking, wedges and friction levers are brought into action, by which the breaking, wedges and friction levers are brought into action, by which the descent is immediately and effectually arrested. Guide rods, or plates, are placed on each side of the shaft, extending from top to bottom, and corresponding grooves are fitted in a frame, to which the boxes or corves, which bring up the coal or other materials, are hung. Two powerful bars, working on axes, are placed across the bottom of the frame, and acted on by levers in such manner that, as long as the entire weight is suspended, the whole moves freely in the shaft; but should the rope break, the levers immediately close from the weight upon them; forcing out the bars against the guide plates, and, acting as a wedge, bring the descending body to a dead stop. The frame is floored over, and surrounded with a balustrade for the convenient and safe ascent and descent of the men.

IMPROVED RAILWAY WHISTLE.-Mr. A. Doull, C.E., has taken out IMPROVED RAILWAY WHISTLE.—Mr. A. Doull, C.E., has taken out letters patent for a new whistle for railway and steam-boat signals, which is very far superior in point of intensity of tone, besides having the advantage of being able to give a variety of notes, on which a code of audible signals can be made, which it will be next to impossible to misunderstand. It consists of a close vessel, or receiver, into which atmospheric air is compressed by air-pumps, to which motion may be given by hand, or by connection being made with any moving parts of the carriage, and disconnected when the air is sufficiently compressed, as shown by a safety-valve attached. The compressed air is allowed to pass through the whistle by the action of a lever, wheel, and axle, or any other known means; and, by having two whistles of widely distinct notes, a large number of different combinations of sounds may be made, from which a most perfect code of signals can be compiled. Air highly compressed gives a far more clear, load, and distinct tone than steam, or any other clastic vapour.

lond, and distinct tone than steam, or any other elastic vapour. THE USES OF THE ATMOSPHERE.—The uses of the atmosphere are many. It is the medium for regulating the dispersion of watery vapours the earth. If there was no atmosphere, and that as now the equatorial climes were hot, and the poles cold, evaporation would be continually rial climes were hot, and the poles cold, evaporation would be continually going on at the equator, and condensation in the colder regions. The sky of the tropical would be perpetually cloudless; whilst in the temperate and arctic zones we should have constant rains and snow. By having a gaseons, atmosphere, a more uniform state of things is produced—the vapours evaporated from the earth become ultimately mixed with the air, and are borne by it over large tracts of country, and only precipitated when they enter some stratum of air much colder than that which surrounds them. There are opposite tendencies in an atmosphere of air and an atmosphere of vapour. The air has a tendency from the colder to the warmer parts, and the vapours from the warmer to the colder regions; and as the currents of the air, from the distribution of land and sen—the land, from its low-conducting power, being more quickly heated than the sea—are very complicated—and as some force is employed in keeping the vapours suspended in the air, water is less deposited on the earth than it would have been, had not these tendencies of the air and its hygrometric character rendered it otherwise. it otherwise.



-Cross vertical section through A B, fig. 3.

-Cross vertical section through D, fig. 3.

-Plan of the tube, showing the position of the rollers in opening the same.

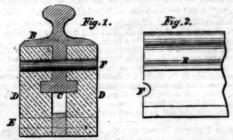
-Section of the new metallic joint (full size), where the ends of two section together.

- Fig. 5.—Plan of fig. 4.

The full size experimental line on this principle, at the Poplar station The full size experimental line on this principle, at the Poplar station of the London and Blackwall Railway, has now been in daily operation upwards of five months; and having, from the very commencement of the patentees' experiments, taken a great deal of interest in this, what we always considered the only hitherto developed principle on which atmosperic traction could be properly carried out, we have lately paid two or three visits to the line, to ascertain how it had progressed; and we are happy to say, it has more than answered our most sanguine expectations. Having so often described the principle, we have now only to notice its action, and the improvements which have been made. The great superiority of the merely lateral opening and closing of the tube over the longitudinal valve, has been most strikingly displayed; it has not, during the whole period of its working, had one minute's attention bestowed upon it; the tubes remain in the position exactly as first laid down, and the only difference we can notice is, that it works better than ever. During this period we have had great changes of temperature, and intensely hot weather; all, however, has had not the slightest injurious tendency, and, as far as the principle is concerned, it appears to us perfect.

There has been some little difficulty with the joints; but the continuous efforts of the patentees have at length overcome this likewise. The joints will now be formed as follows:—The ends of the sections of tube, butting together, as we have on former occasions described, are encircled with a band of copper, rolled with a ridge in the centre (see cut) to allow for expansion and contraction; the two flat sides are bound to the tubes by iron collars, and keyed fast up to the longitudinal opening. The whole is now, therefore, a perfect metallic tube, without leather, vulcanised India-rubber, grease, or any other perishable material, continually undergoing change, and requiring constant attention. Nothing in the working of a railway can effect it; time, of the London and Blackwall Railway, has now been in daily operation

#### IMPROVEMENTS IN RAILWAY CONSTRUCTION.



nted to Egbert Hedge, No. 9, Howard-street, in dlesex, gentleman, for certain improvements in r of securing them.]

(Specification of patent granted to Egbert Hedge, No. 9, Howard-street, in the partsa of \$Bt. Clement's Danes, Middleexe, gentleman, for certain improvements infamilis for railroads, and in the manner of securing them.)

This invention consists, first, in a new form and construction of rail; and, secondly, in the mode of securing such rails to their longitudinal sleepers, by imbedding the lower portion of the entire length of each rail in sleepers, grooved to receive such part in the manner exhibited by the drawing in fig. 1, which represents a transverse and vertical section of a rail and sleepers. It will be seen, upon referring to this figure, that the rail is formed with (what the inventor terms) an upper table 8 and under table (C), and that the shoulders of the upper table rest upon the upper edge of each of the longitudinal timbers (D D), which have grooves formed therein, and extending throughout the entire length of each sleeper, for the purpose of receiving that portion of the rail termed the under table (C), which, when placed therein, is firmly secured in this position, by pins or keys (E) being passed through holes in the sleepers, as shown at fig. 2. At the points of junction of each length of rail, the inventor proposes making the upper table (B) of the rail wider than the other part; and there are "half round" holes (F) formed at the ends of each rail, which, when brought together, form an entire hole, into which a pin or key (G), is passed, the ends resting in holes in the sleepers (D D), as shown. This arrangement, whilst it serves to connect each length of rail together, allows it lateral movement for expansion and contraction. The inventor proposes employing rails of cast-iron, except at those parts of a line of railway where crossings are required, in which cases he proposes to employ wrought-iron rails of the ordinary form, and laid in the usual manner. The inventor claims—firstly, a rail, with an upper and under table and shoulders, as described.

Patent Office and Darkors Registry, 210,

A New Railway Danger.—A new addition has been made to the catalogue of railway dangers. On Saturday evening, the 14th inst., while a goods train was going from Edinburgh to Berwick, a stoker, engaged at the top of the funnel, inhaled the sulphuric funes of the coke, which immediately rendered him insensible, and he fell with violence to the ground, striking the iron frame of the engine in his descent. Medical assistance being obtained, he soon after recovered; but his case may serve as a warning to avoid similar inspirations.

## BRETT AND LITTLE'S ELECTRO-TELEGRAPHIC CONVERSER.

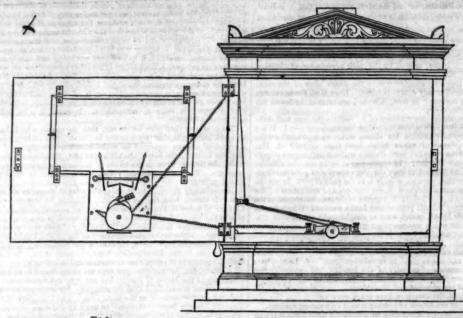


Fig. 2.

The magnificent discoveries which have, of late years, been made in the roperties and powers of that extraordinary element-electricity, and the mportant improvements which have been carried out in its application to telegraphic purposes, has-and it may be called a curious coincidencekept pace with the development of the railway system; for, without a mean cation from station to station, the latter co ever have been brought even to its present advanced state, much less to that degree of perfection which it must reach at no distant day, as its defects become palpable, and as the inventive genius of the human mind discovers and applies corrective remedies, rendering what is now complex and uncertain simple and complete. Electricity, applied to telegraphi es, is comparatively of modern date; and, during the few years in which its present course has been run, the advance has been extraordinary -improvement has succeeded improvement in rapid succession, until Science herself has been taken by surprise, and wondered where the genius Science herself has been taken by surprise, and wondered where the genius of ther sons would stop. Still, in all the telegraphs hitherto in use, there have been objections in detail of a more or less serious description, such as vibration of the needles, imperfect insulation at the supports for the wires along the line, by which a large portion of the fluid finds its way into the earth; the subjection of the wires to the action of atmospheric electricity, by which the machinery becomes deranged and not unfrequently broken and shattered; and various other evils, to which the attention of those connected with the electric telegraph has long been ineffectively directed. It has been left for Messrs. Brett & Little, of Furnival's-inn, to surmount every difficulty which has yet presented itself; and, while their Electro-Telegraphic Converser is so far free from imperfection, it is in all its details a most simple and easily-understood machine. We shall now endeavour to give as clear and definite a description as our limits will allow, and, in the first place, to begin at the beginning, describe the improvements they have made in the prime mover itself—the battery. In the common battery it is well known that much inconvenience arises from the accumulation of crystals of sulphate of zinc (when sulphuric acid is the exciting liquid) on the plates, which renders that portion of metal useless, and thus the intensity of the current is continually diminishing, and much trouble is occasioned in cleaning the plates. To remedy this defect, Brett and Little's battery is composed of three troughs, one above another. The top one contains the acid, which falls drop by drop through funnels into the next lower one, which contains the cells and plates of metal—these are filled with sand, which retains just sufficient moisture to keep up the excitement, while the superfluous liquid, charged with the sulphate of zinc formed, falls through funnels filled with sponge (thus acting as a common filter) into the lowest trough, which readers ot her sons would stop. Still, in all the telegraphs hitherto in use, th have been objections in detail of a more or less serious description, such as

station. This is a large bell, which gives a loud deep tone, and, should an accident happen on any part of the line, the attendant at the nearest station immediately, by a lever, completes the attached electric connection, when the "accident bell" is tolled at every station, and he then immediately proceeds to inform them of its nature and locality. The bell springs require only winding up once every fortnight.

Each station is provided with a deflecting lever, by which the attendant can isolate his station when necessary, but without stopping the connection with the bell through the means before stated; and ingenious measures are adopted for carrying off currents of atmospheric electricity, whether intense or of small power, without, in the least, obstructing the artificial current.

can isolate his station when necessary, but without stopping the connection with the bell through the means before stated; and ingenious measures are adopted for carrying off currents of atmospheric electricity, whether intense or of small power, without, in the least, obstructing the artificial current.

The above diagrams represent the working parts of the system; fig. 1 showing the internal arrangements, which are exceedingly simple; and fig. 2 the front elevation of the telegraph.

The method of adopting the above admirable and simply-arranged system of alphabetical and digital signs is as follows. Is will be seen that the letters of the alphabet are distributed into two vertical columns on the dial, the first or left hand column comprising the letters from A to M; the second or right hand column the letters from M to Z. Between A and N, the first letter of their respective columns, the figure 1 is placed, the meaning of which is, that one motion of the indicator, from its an engular position to a vertical one, will signify A or N. If it be the left hand indicator that moves once, the first letter on the left hand column is meant—that is A. On the centrary, if it be the right hand indicator that moves once, the first letter in the right hand column—that is N—is signified. In like manner, between B, the second letter is the left-hand column of letters, and O, the second letter in the right hand column of letters, 2 is inserted, which means, that to indicate B, there must be two motions of the left hand indicator; and to indicate O, there must be three and four motions of the indicator. A different arrangement has been adopted from the letter E, in one column, and the corresponding letter R, in the other column, downwards. From these letters downwards, the figure 1, and opposite to R. stands the figure 1 also. If the letter to be transmitted be E, one single, distinct, motion of the left hand indicator (E being in the left hand column of letters) us to be fives made, and then one by the left hand indicator. T

a coil of 2500 yards of the electric fluid has the same difficulty, and takes tightly wound in a coil, the electric fluid has the same difficulty, and takes the same time, in passing, as over 100 miles of wire perhaps one-eighth of an inch in diameter, and 100 miles in length, not coiled, but perfectly unobstructed—hence, the 10 coils are equal to 1000 miles; and through these the current passes before fit reaches the dials. In this room the whole beauty and simplicity of the system is seen—the isolating one, four, or more stations; or conversing from No. 1 with Nos. 10, 17, and so on; or giving any general notice to all at once—the difference of the intensity of the action, when the fluid is allowed to pass through one, two, or five of the coils, as compared with the whole 10, it then becoming feeble. In one corner is fitted up the before-described accident bell—the action and importance of which is clearly shown. The whole is a highly interesting and intellectual exhibition, powerfully conveying to the mind a clear perception of the advanced state of science in the present day; the beautiful finish of the mechanism giving occular demonstration of the proud position of the mechanical arts in this country; and the whole reflecting the highest credit on the inventors and patentees.

NOVEL SPECULATION.—A mercantile house at Berlin has proposed to all the railway companies of Germany to supply all their carriages with allk blinds for nothing. They simply propose to reserve to themselves the right of changing the blinds as often as they please and they require the companies to engage themselves not to accept, during 50 years, either for money or gratuitously, any blinds but theirs. Their object is to cover the blinds with advertisements.

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## EXTENSION OF STEAM NAVIGATION. X

EXTENSION OF STEAM NAVIGATION.

A LIST OF STEAM VESSELS, NOW CROSSING THE ATLANTIC.

ENGLAND:

CONARD LINE: from Liverpool to Halifax and Boston.—The Hibernia, Britannia, Caledonia, Acadia, and Cambria.—Building: from Liverpool to New York.—The America, Canada, Niagara, and Europe.

ROYAL MAIL LINE: from Southampton to the West Indies, Mexico, and New Orleans.—

The Thames, Great Westorn, Severn, Teviot, Dec, Medway, Tay, Clyde, Trant, Forth, and Aven.

FRANCE.

FRANCE.

FRANCE.

FRANCE.

FRANCE.

FRANCE.

FRANCE.

AMERICA.

AMERICA.

Mills's Line : from New York to South

building.
Collins's Lins: from New York to Liverpool.—Four building.
GOVERNMENT LINE: from New York to New Orleans.—Four building.

The above vessels average about 1400 tons.

The average rate of passage to the United States is about 25t, by steam, and 20t, by packet.

STEAM TO INDIA AND AUSTRALIA. X

A prospectus has just been issued, announcing the formation of the India and Australia Royal Mail Steam Packet Company, for the purpose of establishing communications between England and her eastern dependencies.
When it is considered that China, India, and New Holland, with the adjacent When it is considered that Chins, India, and New Holland, with the adjacent regions and islands, contain a population numbering more than one-half the entire surface of the globe—that our Indian empire alone contains a population numbering more than one hundred millions of British subjects, whose annual revenue exceeds twenty millions sterling, with a maritime trade of nearly thirty millions—and that our possessions in New Holland, New Zealand, and other settlements in the east, could support as many more, and whose inhabitants are so rapidly on the increase—all must be convinced of the imperative necessity which exists for establishing means of more frequent intercourse than at present exist; more particularly as France has three packets every month from Marseilles, and the Austrians two from Trieste, to Alexandria and Syria; while, with all her interest in, and traffic to, the east, England has only two to Egypt, and but one monthly packet to the East Indies. The following statistics of our Australian settlements—the whole of which are comparatively of modern date—will give some idea of what our whole interests and commerce in the East amounts to:

Population. Revenue. Imports. Exports.

| Populatio                             | 754. | reconne. |      | ampores.   |      | Traports.  |
|---------------------------------------|------|----------|------|------------|------|------------|
| New South Wales & Port Philip 181,556 |      | £437,772 |      | £1,616,213 | **** | £1,555,986 |
| South Australia 25,000                |      | 36,182   |      | 184,819    | **** | 148,459    |
| Van Diemen's Land 58,903              |      | 136,983  | rese | 587,458    |      | 582,509    |
| Western Australia 4,700               |      | 10,000   | **** | 25,225     | **** | 25,000     |
| New Zealand 17,000                    |      | 25,000   |      | 55,018     | **** | 10,998     |
| Total-(Europeans) 287,159             |      | £615;937 |      | £2,468,728 |      | £2,322,952 |

ANNUAL VALUE OF THE TOTAL TRADE. 
 New South Wales and Port Philip
 £3,172,199

 South Australia
 333,278

 Van Diemen's Land
 1,169,962

 Western Australia
 50,225

 New Zealand
 66,016

Total value ..... £4,791,680

A Charter of Incorporation has been obtained, which limits the responsibility of the shareholders to the amount of their subscriptions; and the following are the advantages which it offers to the company—viz.: "To establish communications to and from the United Kingdom, the East Indies, Australasia, and New Zealand, and such other intermediate ports or places as are thereinafter mentioned—viz., any port or place on the east coast of Africa, between the Isthmus of Suez and Cape Guardafui, the islands of Ceylon and Mauntius, or any other island in the Indian Ocean, any port or place in Asia to the east ward of Aden, and to the westward of Singapore, and any island, port, or place in the Eastern Archipelago, or on the continent of Australia, or in Van Diemen's Land; and also to such other ports or places as may be allowed from time to time by the president of the committee of the Privy Councii, appointed for the consideration of all matters relating to trade and plantations, to be indorsed on the said Royal Charter on the application of the company." It also authorises the company to commence business on the line from Ceylon or Singapore (at their option) to Sydney when 125,000L, and on the whole line from England to Australia, when 250,000L is paid up.

# IRISH TRANS-ATLANTIC PACKET STATION. X

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This question which had been, through the pressure of matters more urgent in connection chiefly with Ireland, put, as it were, in abeyance, pending a course of legislation imperatively demanded by their very urgency, is, as we find, again taken up, and is now put prominently forward, or is rather forced upon the consideration of Government, by the claims of two rival lines of rail-way, to have a trans-Atlantic packet station in that harbour, which is the most ontigues to the terminan of the respective lines; or decompany urigin the experience advantages for each station of the harborn at its terminan on the southwest of the control of the con contiguous to the terminus of the respective lines; each company urging the superior advantages for such station of the harbour at its terminus on the southwest coast of Ireland, and of its superior facility and rapidity of communica-

that conclusion we as yet have had no reason to doubt. Still we are open to conviction; but the proof must be paramount to all that nothing has, up to the present period, appeared to convince us that we had come to a wrong conclusion. In respect to the national utility of a trans-Atlantic packet station on the south-west coast of Ireland, in immediate and direct communication with America, there appears to be no controversy; opposition to it can come only from self-interested parties. We cannot pass over a recent admission, or rather proof, of one national advantage that might be derived from it, as referred to in the report just published, of the select committee of the House of Lords, appointed, on Lord Monteagle's motion, to consider the means by which colonisation may be made subsidiary to other measures, for the social condition of Ireland. The committee report favourably on the principle of colonisation, and recommends the "lessening the time, risk, and cost of trans-Atlantic navigation, by the transmission of emigrants for America from the best situated western ports of Ireland, and the possible use of steam for such purposes." With this, we close our remarks for the present.

#### LITERARY NOTICES.

The Engineer's and Contractor's Pocket-Book, for the Pears 1847 and 1848.

John Weale, High Holborn.

John Weale, High Holbern.

In the Mining Journal of the 12th Dec. last, we duly noticed the appearance of this useful work, which is a remodelling and improvement of Templeton's Engineer's Pocket-Book. Mr. Weale then Issued a very large edition, which he considered would have been fully sufficient for the two current years: so well, however, and so deservedly, has the publication been appreciated, that, before the month of July, the stock became exhausted. We have now before us a copy of the second edition, which is got up in the same substantially elegant style, and has received every emeadation and addition which could be discovered to be required. Whatever new discoveries, within the province of the work, have been made since the last publication, have been added; and in it the engineer will now find the most ample statistical details in every branch of his most ardnous profession.

sections, Improvements, and Practice of Benjamin Thompson, in the combined character of Collegy Engineer and General Manager, with a short Precise on the Coal Trade Regulation. Written by Himself. Newscatte: M. and W. M. Lambert.

of Colliery Engineer and General Manager, with a short Treatise on the Coal Treade Regulation. Writtem by Himself. Newcastle: M. and W. M. Lambert.

The volume before us is from the pen of Mr. Benj. Thompson, a deservedly celebrated colliery engineer and owner, and contains a complete detail of his varied experience since 1811—a period of 36 years—in the Newcastle and Durham coal-fields. At that period the only method of shipping coal was by the primitive method of "spouting" them into the ships: that is, tilting them from the waggon down an incline plane, or shoot. He had no sooner become settled as general manager of Bewicke Main, or Urpeth, Colliery, than he turned his attention to an improved method, and erected the first coal errane, by which the loaded coal waggons were lowered on the ship, and, when empty, a counterbalance weight raised it to its place; this lod the way to the numerous improvements which have since taken place. The work describes numerous et al., when empty, a counterbalance weight raised it to its place; this lod the way to the numerous improvements which have since taken place. The work describes numerous et al., when empty, a counterbalance weight raised it to its place; this lod the way to the numerous improvements which have since taken place. The work describes numerous et al., when the work of the counterbalance weight raised it to its properties and the place of a coal viewer. Without being in the slightest degree interesting to the general resides, there can be no doubt, but, to the coal trade, more particularly that of the north, it will furnish to all parties officially connected with coal mines a wide field of well-digested information on that subject. The duties of colliery engineer empty engineering; and to the young application, with a considerable intermixture of delice agineering; and to the young application, with a considerable intermixture of delice agineering; and to the young application, with a considerable intermixture of delice agineering; and to the young applic

The Thomes, the Secasion, and me St. Leavence; or, the cool of creat british, freshid, and North America, identified and promoted. By Thomas Brantmonian, Esp. London; Fores, Piccadilly—1847.

Mr. Bermingham has long been before the public as an author, in the philanthropic endeavour to improve the social and domestic welfare and happiness of the population of his native country—Ireland; and, in the present pamphlet, he evidences a deep commisseration with the sufferings which the people have lately endured—a just appreciation of the Government grant—and of having spent much time and attention as to the best means of establishing such a system of things as shall bring about, not only temporary relief, but social combot and permanent happiness. Supposing it necessary to remove \$25,000. holders of small farms, or cottages, in Ireland, he thinks that profitable employment can be found for them upon works of absolute importance at home, and that they should be removed to the United States of British North America gradually, and thus not inundate wild regions with a vast horde at once. This employment would be found in the earthworks for railways, harbours, dredging rivers, draining public and private buildings, a better description of cottage, fisheries, mining, brick and tile making, repairing roads, bridges, and, lastly, the construction of railways, common roads, piers and harbours, improvements in navigation of the great rivors, lakee, canals, &c., in British North America, preparatory to colonization. These great works he calculates to involve an expenditure of 63,500,000. In 10 years, with the most profitable and beneficial results; and, to cenable Government to carry out the plan, they should seek powers to raise the necessary capital, by creating a new stock, to be called "The rish hisprovement Stock"—to be in the form of annuity, for 25 years, and at such interest as would induce capitalists to invest therein. Also, that joint-stock companies should be legalised for all sitch undertakings as are here propos

The Spelling-Book of Utility. By R. CHAMBERS, F.L.S. Second Edition, greatly enlarged London: Simpkin and Marshall—1847.

We have great pleasure in noticing a second edition of this fuvenile instructor—so different from the generality of the stepping stones to reading, which, instead of being of easy gradation, are of so monotonous a nature, as to disgust the younger mind, rather than making it feel an interest in what it is being taught. In Mr. Chambers's book the lessons are arranged in a familiar, easy, and progressive series, and all contain useful information, calculated to make children hink: kindness towards each other, and the fulfilment of the laws, are inculcated—and the whole is fully adapted to lead to a love of reading, and a longing for higher instruction.

#### Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK.

TUEBDAY .... General Steam Navigation Company—offices, at Two.

WEDNERDAY ... South Wales Railway—Paddington Station, at Eleven for Twelve.

Vale of Neath Railway—Paddington Station, at Eleven for Twelve.

Vale of Neath Railway—offices, at Two.

THURBDAY ... Whitehaven and Furness Railway—offices, at One.

Cornwall Railway—Truro, at Twelve.

Rorthern Counties Railway—London Tavern, at Twelve.

East and West Holis Docks & Birmingham Juretton R way—offices, Two.

Recht Consolidated Mining Company—offices, Leeds, at Twelve.

North Wales Railway—offices, at One.

Londonderry and Emiskillen Railway—offices, at Twelve.

SATURDAY ... Tharmes Haven Dock and Railway—offices, doffice-house, at One.

Londonderry and Colerains Railway—offices, at Twelve.

[The measures of Mining Commands are inserted, symment Be Monter Laiffeiners 1]

LINIVERSAL SALVAGE COMPANY.

UNIVERSAL SALVAGE COMPANY.

The annual meeting of the shareholders in this company was held at the offices, Old Jewry, on Thursday last, the 29th inst.

The Secretary read the advertisement convening the meeting and the director's report, which stated that the directors had reduced the expenses to the lowest possible obb; and to recommence operations it would be necessary to raise all the funds they possibly could, by obtaining payment of the outstanding deposits and arrears of calls, and the sale of all the old materials; they had taken all necessary steps for these purposes, but without success. The vessel, named the Les, had not been sold, though offers had been made for her, but much less than she was worth; they had commenced legal proceedings against the defaulters, but unfortunate delays supervened, and the trials could not come on for some months; in the meantime, a bill in equity had been filed by some of the defaulters against the directors. In consequence of this state of things, they saw it was impossible to proceed; and, as the only resource, they had made a declaration of insolvency, preparatory to passing the Court of Bankruptey. All they wished was, a fair and equitable arrangement, the immediate payment of rent, tradesment's bills, and the salaries which have been long due, and an indemnity for the security of the directors as to future claims, as they had already agreed to forego very considerable claims for money advanced.

Mr. LUSD, in moving the adoption of the report, said, he agreed with the sentiments contained therein, with the exception of the indemnity, which he believed the directors were disposed to agree to a much less sum: he moved that the reports be received and adopted, which was seconded by the Hon. Mr. MURRAY; and, on a show of hands, nine were held up for the motion, and noneagainst it: there were about 30 sharholders pressent.

The Chairman she moved the re-election of Sir R. Price, Bart, Capt. S. Price, and Mr. Lund, as directors, who went out of office by rotation. On thi

the three directors be requested to retire."—Sir R. Prick defended himself and colleagues.—Mr. Winterior complained, that he was not to be indemnified as a former director.

It appeared from the general discussion, which we cannot give at length, that while in the direction he had, in common with the other directors, advanced 300l. to pay off urgent debts, which Mr. Murray had advanced for him and his colleagues, on their signing a bond for 3000l.—the whole of which he had been compelled, by Mr. Murray, to repay him that morning: thus was he left to seek his remedy as he could. At a subsequent period, 300l. each was again required, which he did not find it convenient to pay; the consequence was, the passing a resolution, that those who did not advance should be requested to retire. Ho was glad he just escaped borrowing a second 300l., and signing a second bond; and the consequence was, he was virtually turned out of the direction; he could see no reason why he was not as much entitled to indemnity as the present directors.—Much further discussion was entered into, which is uninteresting to the pubic; and, eventually, the three directors were re-elected, and Mr. Payne was re-elected an auditor.—Thanks were then voted to the chairman, and the meeting separated. meeting separated.

was re-elected an auditor.—Thanks were then voted to the chairman, and the meeting separated.

TAFF VALE RAILWAY.

The half-yearly meeting was held at the White Lion Hotel, Bristol, on the leith inst., WALTER COFFIN, Esq. (deputy-chairman) in the chair.

The seal of the company having been put to the registered list of proprietors, the scere-tary read the report, which was in substance as follows:—It was with salisfaction that the directors were enabled to congrations the proprietary on an increase of revenue on the preceding half-year of 2778/428.9d., notwithstanding an adverse state of twide, produced by the scarcity and high price of provisions. Of the increase, the Aberdare Railway produced 1763f.9s. 4d., the gross carnings of that line. The least of the Aberdare file came into operation on the lest of January isse. It would be observed that a considerable loss on that line has accrued during the half-year, sufficient to countervall any advantage to this company from its own increased revenue. This deficiency induces your directors to recommend that no addition to the depreciation fund he made for this half-year; and that a dividend of 3f. 10s. for each original share of 1964, he declared, with the proportionate per centage above 5 per cent, on the quarter and 10f. shares. The directors expect a dividend of 3f. 10s. for each original share of 1964, he declared, with the proportionate per centage above 5 per cent, on the quarter and 10f. shares. The directors expect a dividend of 3f. 10s. for each original share of 1964, he declared, with the proportionate per centage above 5 per cent, on the quarter and 10f. shares. The directors expect a dividend of 3f. 10s. for each original share of 1964, he declared, with the proportionate per centage above 5 per cent, on the quarter and 10f. shares. The directors encounter that year would more nearly assimilate the liceone and expenditure of that line. The opening of the Taiscoy Tunnel, a work of considerable difficulty, for the purpose of completing the June, was prog

THE SHAREHOLDERS OF THE RHYMNEY IRON COMPANY. GENTLEMEN,—The death of Mr. Rougemont having occasioned a vacancy in the direction of the Rhymney Iron Company, I beg to inform you, that I am a candidate for the office, and request the favour of your support at the annual meeting in November next. At the suggestion of triends, I some months since intimated to the directors, that it was my intention to come forward, as a candidate, on the first vacancy occasioned by death of resignation; on calling upon the chairman, however, a few days subsequent to the amountment of Mr. Rougemont's decease, I was informed that the board had thought proper (by virtue of the powers given them, inder the 16th clause of the Deed of Settlement), to offer the vacant seat to another gentlemans, whose possession of an office in the City—where he could always be met with during the hours of business—rendered him, in their cyes, a more desirable colleague than myself. It is not for me to question, for a moment, the eligibility of the gentleman selected by them; but, in justice to myself; I think, that, if this were their real reason for passing me over, they should, at least, have secretained whether I was not sufficiently often in the City to fully qualify myself for the requirements of the company: they would, in that case, have found that my business engagements require my presence in town, and in the immediate vicinity of the office, three dais in the week, and on other days, that I am invariably to be uset with at my offices in Greenwich or Lambeth. It would, I think, also, have been as well, it, instead of forwarding to me, through the secretary, a dry answer—briefly acknowledging the receipt of my letter removes the terminal content of the company is the content of the passing the tree requirements above stated, I was deemed intelligible.

Looking at these circumstances, therefore, I cannot but conclude, that, for the requirements and the content of the Deed, which

reason above stated, I was deemed ineligible.

Looking at these circumstances, therefore, I cannot but conclude, that, in the course have felt it my duty to take, in moving for the repeal of the 13th clause of the Deed, which would have regulated the division of our profits by the average of the five preceding years, and in which I was opposed to the majority of the board, I have rendered myself person ally objectionable—and for this reason, and this reason only, have been rejected. The confirmation, however, rests with the shareholders; and the spontaneous promises of ampport I have, within the last few days, received, I consider, fully justify me in announcing my determination to contest the election.

Lave been a chareholder in the Rhymney Company since the year 1836—almost from its commencement. I have endured, in common with the other early shareholders, the sarried depreciation to which our property, through the pressure of the times and evidence, the sarried depreciation to which our property, through the pressure of the times and evidence in the committee of directors and shareholders the plan for the creation of the new shares—that was so warmly responded to by you sli, swould, I confest, be to me a subject of infinite gratification, to be placed by you in a situation where I could be of further use. Should I be chonoured with your support, I can only assure you, that my best subfilled such as they are, shall be devoted to promote the interests of the company, in which we are both interested; and, if you are awourable to my claims, you would construct of the Palsee, Bromley, Real, August 1, 1847.

The Palsee, Bromley, Real, August 1, 1847.

TO THE SHAREHOLDERS IN THE CORNWALL RAILWAY TO THE SHAREHOLDERS IN THE CORNWALL RAHLWAY.

The meeting of this company is on the 26th inst, in Traro. Sinceholders, attend on that occasion. You need not to be told that your shares, which have pair 7s. INs. and 3s. 18s. respectively, are now absolutely worthless. You cannot even give than away. If the directors are to force on a scheme of this kind, your ruin must result. Demand one of three things from the directors—

1. That they shall make these shares marketable, which now they are not a or a first that they shall suspend further operations for 6 or 12 months; or,

3. That they shall wind up the concern, and return the unexpended money, a any lin one word, that they shall either end or mend this scheme.

August 18, 1847.

A SUFFERING SHAREHOLDER.

\* ROCKET PRACTICE

Considerable interest was excited by the Government trial of Hale's rocket, with that of the Congreve, at Shoebury Ness, on Wednesday, the 18th inst., when a series of experiments were made—140 rockets being fired on the occasion, ranging from a dead level to 30°. Among the Government authorities and selentific guathemen and officers present, under whose immediate supervision the trial was made, we noticed Capt. St. T Hastings, storekeeper of the Board of Ordnance; Major-General St. T. Dewnman, C.B., K.C.H., commandant of the Woolwich garrison; Major-General W. Smith, Director-General of the Royal Artillery; Col. Chalmens, R.E.; Col. Hardings, of the select committee; Col. Inglis, R.E., Oapt. Denham, R.N., Commander Jenner, R.N., Major Wilson, R.A., Col. Gilbert, Col. Colquison, Capt. Wingfield, and others. The trial occupied full two hours, commencing at about 10 o'clock—there being from 300 to 300 persons present. Mr. Hale was also present, and superintended the firing his rockets.—It may be well to observe, ere we once upon the results attended the firing his rockets.—It may be well to observe, ere we once upon the results attended to the firing the rockets.—It may be well to observe, ere we once upon the results attended to the firing firing that Mr. Hale's rocket differs from the Congreve rocket being of equal weight, but is in. In length, having attached to it a stick 8 ft. in length, which Hale's rocket traders unnecessary.

Seventy rockets were freed of Mr. Hale's invention, and 70 of the Congreve rocket, alternately, varying in the elevation at which they were placed, as before observed, from 20° to a dead level. The order of fring was five from each, at the several angles of 20°, 18°, 10°, 8°, and 39°, and point blank. While, we may observe, that the Government rocket had a manifest advantage, in not only accurately determining its angle, as far as our observation went, but not wift so much accuracy as might have been the case, and Aff. Hale been more serrapulous in attending to this point; atthough,

tinbe being 6 to 7 feet above the sands, while Mr. Hale's were even sank below the surface, to acquire the necessary angle.

There were six flags fixed, at the distance of \$60, 1000, 1200, 1400, 1600, and 1800 yds. At 360° elevation, the service, or Congrese, rockets varied from 1000 to 2200 yards in length of range; while those of Mr. Hale, at the same elevation, ranged from 1600 to 3000 yards. At 150° those of the Government receled from 450 to 1800 yards—those of Mr. Hale being from 1800 to 2500 yards. At 10° elevation, the extremes of the Government rockets were 180 and 650 yards, z whereas those of Mr. Hale were from 400 to 1800 yards. At 50°, the service recket was from 50 to 500 yards—that of Mr. Hale from 100 to 700 yards. Again, at an elevation of 29°, several of the Government rockets struck some 50 yards, and the stand—those of Mr. Hale, in no case less than 200 yards, rickicheting to 1000 yards; while those of Mr. Hale, in no case less than 200 yards, rickicheting to 1000 yards; while those of the Government rockets user in those of Mr. Hale's, glancing over the sands to upwards of 300 yards, and generally keeping a precise direction.

to 1000 yards; while those of the Government rearchy passed the first flag, or 500 yards distance. At a dead lovel, the Government rockets were, in some degrees, superior to those of Mr. Hale's, glancing over the sands to upwards of 500 yards, and generally keeping a precise direction.

The rocket of Mr. Hale, from want of a proper stand, or arrangement as to its position, did not, at his level, as speared to us, go with equal precision, but still continued to outrange the Congreve rocket. Seven or eight of the service rockets broke their sticks on coming into contact with the surface, at a comparatively short distance. The Government rockets were fired from their perfect tube, or stand, which affords every facility for adjusting the elevation and direction. The instruments used by Mr. Hale, being three in number, with the view of testing the several modes which might be applied to firing the rockets, only surprised us in effecting so much—one of these being merely two pleces of board, affixed by way of trough.

It will be observed, that the results were highly favourable to Mr. Hale, and gave evident satisfaction to all present—inasmuch that not only did the majority of the rockets take a longer range, but, in some instances, carried many hundred yards beyond the Congreve rocket, with which it had to contend; while, in five cases, the latter, although at an elevation of 50; took the ground at from 30 to 60 yards from the point of firing, and there remained. It is right, however, to remark, that, at the close of the experiment, two of Mr. Hale's rockets, fried in a horizontal line, failed. The mode of firing with the Congreve rocket by Lieut. Boxer's tube is well known, while those of Mr. Hale had not only novelty but simplicity to recommend them.

The first 30 rockets were fired from a trough about 10 ft. in length, formed of two sides placed at right angles, the trough being lined with sheet-from. Another mode, adopted with the view of their application to naval warare, was by placing the rocket in a machine,

THE "GREAT BRITAIN."—There appears to be little chance of rescuing this ill-fated ship from her present perilous position—all previous attempts have failed to realise the expectations of those employed. One other effort, it appears, is to be made on Wednesday next, when the Birkenkead, steam frigate, and the Scowye, steam sloop, will, for the last time, attempt to float her.

failed to realise the expectations of those employed. One other effort, it appears, is to be made on Wednesday next, when the Birkeshead, steam frigate, and the Scowrye, steam sloop, will, for the last time, attempt to float her.

WEST CORNWALL RAILWAY COMPANY.—In our last Number, we gave a report of the half-yearly meeting of this company, and have received a communication from a correspondent on the subject, in which he observes:—"A Mr.Chanter very properly tried to elicit some information from the directors respecting the unpaid calls, which they declined to give him, and also refused him a sight of the books, that he may not have his suspicions confirmed, that some of the directors were themselves defaulter. This refusal on the part of the chairman is, in my opinion, so unwarrantable, that I cannot refrain from drawing your attention to is, and of expressing a hope, that you will exercise your able pen in administering a proper rebuse through the medium of your Journal. From time to time you have ably advocated the formation of the Devon and Cornwall Central line, for which you deserve the thanks of the Cornish public. I wish tib directors of that line would attempt to get possession of the West Cornwall Railway, by buying up the shares, which they can now do at a great depreciation; it would give them such an advantageous position in the county, as would inevitably lead to their obtaining their bill for the Devon and Cornwall Central—the West Cornwall would then form the best paying section of their line. This view of the case you would do well to recommend in your future articles on the subject." We perfectly agree with our correspondent, that the whole of the books of a company ought to be open to every proprietor who has paid his calls, and the refusal on the part of the directors engenders suspicion on the part of the proprietary, and naturally produces mischewous results. As, however, the company are in possession of the Hayle Railway, producing 14,000.4 ayor, and as Mr. Chanter was, perhaps, right in

attrition, or mechanical stress—in the character of engine grate bars, waggon-way rails, type bars, &c.—Thompson's Collivery Investions and Improvements.

REMARKS AS TO THE LOW DUTY ON SMALL COAL.—The reduction of duty on a certaun description of a small coals shipped oversea, which Act 56 Geo. III.

c. 127, provided for, originated in a conversation at one of the Wear coal trade meetings, held at Chester-le-Street, in the year 1815, between Mr. Robinson (the then collector of customs at Samdetand), the late Mr. Thomas Groudeas, and myself; when I suggested the increased exportation which would be likely to arise, should such a reduction be allowed; and the benefit which the coal trade would gain by shipping off what was then destroyed—naming the width of the screens between the bars, and the length which occurred to me as being proper for the purpose; and which were, in fact, the dimensions of the accreens then, and for some time before, in use at Ouston Colliery. The subject was afterwards geostarily discussed by the meeting, and the idea was decidedly thought well of; but three-eighths of an inch for the width between the bars was considered too little; as well it might be, had an inch for the width between the bars was considered too little; as well it might be, had an inch being the most common gange at that period, and even as wides a five-eighths by no means uncommon; but, then, it must be borne in mind that the screens were very short, and that a large portion of the coals which passed down them did not come in contact with the bars at all; which has been alluded to before, under the head of Coal Screens. Very soon after this, Mr. Robinson, and some others of the party, paid a visit to Ouston Colliery, and were assisted in regard to the screens. That gentleman opened the subject to the Commissioners of Coustoms, and a correspondence ensued, which ended in hete recommending the mater to the Government, and a bill was brought in, and passed into law, just before the death of George III.—1664.

to the Government, and a bill was brought in, and passed into law, just before the death of George III...—1964.

Singular Magnetic Attraction of Mud...—Sir A. Mackenzie was the first to notice the attractive power of the mud at the bottom of some of the lakes of Morth America, which is sometimes so great that boats can with difficulty proceed along the surface. This extraordinary fact is thus stated:—"At the portage or carrying-place of Matrea, on Rose Lake, the water is only 3 ft. or 4 ft. deep, and the bottom is maddy. I have often plunged into it a pole 12 ft. long, with as much same as if it merely plunged it into the water. Nevertheless, this mud has a sort of magnetic effect on the boats, which is such that the paddies can with difficulty urge them on. This effect is not perceptible on the south side of the lake, where the water is deep, but it is more and more sensible as you approach the opposite shore. I have been assured that loaded boats have often been in danger of stating, and could only be extracted by being towed by lighter boats. As for myself, I had never been in danger of foundering; but I have everal times had gress difficulty in passing the spot with far sout rowers, whose efforts could canzely overcomes the attraction of the mud. A similar phenomenon is observed on the Lake Segins, where it is with difficulty that a loaded boat can be made to advance, but divinced by south of the production.

MISCELLANEOUS ALLOYS AND COMPOSITIONS.

ing Journal of the 31st July, we published a numerous we now give an additional list, extracted from the new ed oys; and we now give an add

Engineer's and Cuntractor's Pocket-Book.—
CHICKEN WHITE COPPER,—
40'4 parts copper, 31'5 nickel, 23'4 zine, and 2'5 iron.
GENAN SILVER,—
1 part nickel, 1 sine, and 2 copper; when intended for rolling into plates, 25 nickel,
20 zine, and 60 copper—to which may be added, 3 of lead.
TOWNEC, OR END BRASS.—
8 parts copper, and 1 part zine.
Manners GOLD,—
3 parts copper, 1 zine, and a small quantity of tin.
ALLOY OF THE STANDARD MEASURES USED BY GOVERNMENT,—
575 parts copper, 59 tin, and 45 brass.
BATH MISTAL.—
32 parts copper, 99 tin, and 45 brass.
SPECULUM MISTAL.—
6 parts copper, parts tin, and 1 of arsenic; or, 7 of copper, 3 of zinc, and 4 of tin.
HABD SOLDER,—
2 parts copper, and 1 part zinc.

SPECULUM METAL.

6 parts copper, and 1 part sine.

HAND SOLDER.

2 parts copper, and 1 part sine.

BRITANHIA METAL.

4 parts of brass, and 4 of tim; when fused, add 4 of bismuth, and 4 of antimony.

This composition is added at discretion to melted tin.

PLUMBER'S SOLDER.

Equal parts of lead and tin.

TINMAN'S SOLDER.

2 parts of lead, and 1 part of tin.

PRWIMERER'S SOLDERS.

3 parts of tin, and 1 of lead.

COMMON FRWIES.

4 parts of tin, and 1 of lead.

BEST PRWIES.

100 parts of tin, and 17 of antimony.

A METAL THAT EXPANDE IN COOLING.

9 parts of lead, 3 of antimony, and 1 of bismuth.

This motal is very useful in filling small defects in iron castings, &c.

QUEEN'S METAL.

4 parts.

small defects in from castings, &c.

QUEEN'S METAL,—
9 parts of tin, i of antimony, 1 of bismuth, and 1 of lead.

MOCK PLATINUM.—
8 parts of brass, and 5 of zinc.

SILVER COIN OF BRITAIN,—
11 1-10th pure sliver, and 9 9-10ths copper.

GOLD COIN OF BRITAIN,—
11 parts pure gold, and 1 copper.—Previous to 1826, sliver formed part of the alloy of gold colin—honce, the different colour of our gold money.

RING GOLD,—
6 dwts. 12 grs. pure copper, 3 dwts. 16 grs. fine sliver, and 1 oz. 5 dwts. pure gold.

MOCK GOLD,—
Fuse together 16 parts of copper, 7 of platinum, and 1 of zinc.—When steel is alloyed.

Gdwts. 12 grs. pure copper, 3 dwts. 16 grs. fine silver, and 1 oz. 5 dwts. pure gold.

GG02D,—
Fuse together 16 parts of copper, 7 of platinum, and 1 of zinc.—When steel is alloyed
with 1-500th part of platinum, or with 1-500th part of allver, it is readered much
harder, more malicable, and better adapted for every kind of cutting instrument.
Note.—In making alloys, care must be taken to have the more infusible metals melted
first, and afterwards add the others.
Trostrion Usen is WELDING CAST-STEEL,—
Take of borax 10 parts, sal-ammoniac 1 part—grind, or pound, them roughly together,
then fuse them in a metal pot, over a clear fire—caking care to continue the heat
until all spume has disappeared from the surface. When the liquid appears clear,
the composition is ready to be poured out, to cool and concrete; afterwards, being
ground to a fine powder, it is ready for use.
To use this composition, the sieet to be welsed is raised to a heat, which may be expressed by "bright yellow;" it is then dipped among the welding powder, and
again placed in the fire, until it attains the same degree of heat as before; it is then
ready to be placed under the hammer.

"Laos CEMENT.—

To use this company pressed by "bright yellow; again placed in the fire, until it attains the pressed by "bright yellow; again placed in the fire, until it attains the ready to be placed under the hammer.

- laso Kement,—

Take of clean borings, or turnings, of cast-iron 16 parts, of sal-ammoniac 2 parts, and flour of sulphur 1 part—mix them well togother in a mortar, and keep them dry. When required for use, take 1 part of the mixture, and 20 parts of clean borings—mix thoroughly, and add a sufficient quantity of water.

Note.—A little grindstone-dust added, improves the cement.

This Partsy Grasse For Railway Akkes,—

Water 1 gallon, clean tallow 3 lbs., palm ell 6 lbs., common soda § lb.; or, tallow 8 lbs., and paim ell 10 lbs. The mixture to be heated to about 210° F., and well stirred, till it cools down to about 70°, when it is ready for use.

MENT FOR STEAM-FIRE JOINTS, &C., WITH FACED FLANGES,—

To 2 parts of white-lead mixed, add 1 part red-lead dry—grind, or otherwise mix them, to a consistence of thin party—apply interposed layers, with one or two thicknesses of canvas, or gause wire, as the necessity of the case may be.

There has been issued by order of Parliament (dated July of the railways for which Acts were passe the first party of the case may be. RAILWAY ACTS.—There has been issued by order of Parliament (dated July 21) an elaborate and curious return of the railways for which Acts were passed in the session of 1846; the length of each line; the proposed capital stock, and the amount of capital subscribed for each; the number of shares that each line is empowered to create; and the sum of money each line is empowered to borrow. This return was prepared (on motion of Mr. Moffatt, 20th April), in continuation of Parliamentray Paper No. 637, of session 1845. It appears, therefrom, that the length of lines authorised by the Acts, passed in the session of last year, was 4618 miles 3 furlongs and 2½ chains. The total amount of capital stock proposed in the said Acts was 90,298,430/l; and the amount of capital stock proposed in the said Acts was 90,298,430/l; and the amount of capital stock proposed in the said Acts was 90,298,430/l; and the amount of capital stock of the said Acts was 90,298,430/l; and the amount of capital stock of 5,600,000/l. (in 224,000 shares); and the company were further empowered to borrow 1,868,000/l. The Great North of Scotland Railway was proposed to be 138 miles long; the Northern Counties Union, 127 miles; the Waterford, Wexford, Wicklow, and Dublin, 135 miles; &c. The shortest line proposed by any Act that year was the Shrawsbury, Owestry, and Chester Junction (Extension and Deviation), its length being only nine chains (with a capital stock of 30,000/l, and empowered to borrow 10,000/l more); 20 other Railway Acts were obtained in the same session, for daviations, amendments of former Acts, alteration of levels, &c.

10,000. more); 20 other Railway Acts were obtained in the same session, for deviations, amendments of former Acts, alteration of levels, &c.

EXTRAORDINARY CAPABILITIES OF A RAILWAY ENGINE ON THE EASTERN UNION LINE.—On Thursday last, the Essex locomotive engine, driven by Phipps, and manufactured by Stothart, Slaughter, and Co., of Bristol, brought from Bury St. Edmund's or Stowmarket, to Ipswich, the amazing number of 149 loaded goods waggons at one time; and when the engine reached the Ipswich station, the other extremity of the line of waggons was close to the bridge on the London road, a distance of nearly a mile! This we believe to be the largest goods train that ever arrived at any station in the kingdom; there was one, we believe, on the Birmingham and Manchester, consisting of 192 empty trucks. On the morning of the same day, the Essex took 85 loaded carriages or trucks from Ipswich to Stowmarket, a burden of at least 600 tons, and on the following morning it draw 76 loaded waggons from Ipswich to the same town. Some idea may be formed, from the above statement of facts, of the vast capabilities of good locomotive engines, as well as of the importance of the traffic on the Eastern Union line, which will, doubtless, be greatly increased when the line is extended to Norwich. The commercial transactions of Ipswich are increased to an enormous extent; and, when we consider the great facilities afforded to the trade of this town, by the railway and by water, together with its favoured geographical position, we are justified in expressing a belief, that Ipswich will, ere long, attain to a very important position among the towns in England.—Ipswich Express.—The South Devon line, from this test that the test of the capacity with the meast com-

The Atmospheric Railway System.—The South Devon line, from this city to Teignmouth, has this day been worked throughout with the most complete success. The distance from this city to Teignmouth, including stoppages at Starcross and Dawlish, was performed in 42 minutes, with the utmost case and precision. It is expected that all the transit will be made by the atmospheric in the course of a day or two! So much for the croakers!—Besley's Exeter News, of Tuesday.

MOWDEAY'S PATENT RAILWAY WHISTLE.—On Thursday Capt. Simmons, Government Inspector of Railways, examined a third line of rails which has just been laid down upon the London and Brighton and South-Eastern line, between the Bricklayers' Arms Junction, and the Croydon station. This additional line of railway, which will considerably ease the traffic upon the common line of the above companies, has been gained by the conversion of the Croydon Atmospheric Railway into a locomotive line, and is eight miles in length. It is intended to use it for all the down trains out of London, and many delays, which have heretofore been of frequent occurrence, will thereby be prevented. Capt. Simmons was accompanied by Mr. Peter Clark, superintendent of the London and Brighton line, and Mr. Hood, engineer of the centrence, will thereby be presented. Capt. Simmons was accompanied by Mr. Peter Clark, superintendent of the London and Brighton line, and Mr. Hood, engineer or the line; and after inspecting the alterations in the points and crossings at the New-cross. Hine; and after inspecting the alterations in the points and crossings at the New-cross the atmospheric tubes, the inclines, the visionets, &c., he returned to town by the same special train. Capt. Simmons will make his report to the Commissioners of Railways footh that, and the line will be opened for traffic, it is expected, in about a week. The Government Inspector of Railways footh this opportunity of testing the merits of Mr. Mowbray's chemical railway whistle, an invention designed to supply the desideratum which has hitherto been feit of some efficient means of communication between the grazids and the engine-driver of a train. A notice of the first trial of Mr. Mowbray's invanition appeared in this Journal last year, when we described the ingenious and inexpensive process by which the whistle was produced by the escape of the gas, generated by the contact of muriatic acid with marble. Since that period the patents has auccessfully laboured to perfect his invention, and, among other improvements, he has been mabiled to reduce the weight of the vessel to a very gonvenient and portable size, and to the weight of about 30 lbs. The guard has only to turn a stop-cock, when he wishes to signal the engine-driver, and a shrill whistie is immediately produced, which was distinctly heard by Capt. Simmons and the other gentlemen on the loconocody, on every occasion of its being sounded; and it is to be regretited, that on the return of the special train, when it had to encounter a stiff head wind, and the apparatus was placed upon the last of a long train of trucks, the circumstances being such as to test the efficacy of the invention under the greatest disadvantages, the gas, evolved from a limited quantity of muriatic acid and marble, was all exhausted, from no f GENERAL MINING MART AND CLUB HOUSE,

The MINERAL PRODUCTIONS of the WORLD are computed to be of the annual value of upwards of £54,000,000—ose-half of which is raised in Europe slesse. But facts regarding mining and geology, with the most approved modes of analysing and profitably separating mineral products—the results of practical experience—have no common concentration or abiding place; nor have mining results, varying, as they combessedly do, with the variations of the strata, any acknowledged repository beyond the shelves of a few provincial institutions.

LOKROW—the focus of business appertaining to the emptre and the weetl—the seat of most mining companies, and where almost all of them receive support and encouragement—has no public institution—no locus standi—to which the shareholder, the agent, the inventor, the practical miner, or the possessor of valuable mineral property, can have access to, either to affited or obtain information.

It is proposed, therefore, to form an institution in London, to be called—

"THE GENERAL MINING MART AND CLUB ROUSE,"

"THE GENERAL MARING MARIN ARD USE. ROLLING AND ADDRESS OF THE GENERAL MARING MA

The advantages to be derived from the institution will be these:—
The letters of every member will be received there, and his address in London known to his family and other correspondents.

He will have a place to transact his business, make and keep his appointments his letters and post them; and, for these purposes, there will be private boxes, as public rooms.

There will be all the mining and leading journals of the day, with such other in ing publications as shall be decided on.

The refreshments will be charged at little more than cost price—being a saving 25 per cont.—and no fees will be payable to servants. Every facility afforded for to and from the railway trains, and for visiting places of business and amusem London.

London.

In fine, this institution will afford to the member, as soon as he reaches Lonemeans of inding himself in the society of his triends, or others of congenial taste the case, but less expense, of an inn. If will be open to one and aff of his membelling all the conveniences of a club, but independent of all political, party, as

bining all the conveniences of a club, but independent of all political, party, national, or local feeling.

For mining business appropriate rooms will be set apart, and every facsity afforded in the formation and extension of mining companies—the conduct of their business—the holding their annual or other meetings, and the sale and parciases of shares. The charges for these will be on a regulated and moderate scale, and will only concern those who shall desire the transaction of such business.

No responsibility of any kind is to be incurred by the member beyond the amount of his annual subscription; and he may withdraw at any time by giving half-s-year's notice, and paying up his subscription to the proposed time of quitting.

It is confidently expected that, in addition to the ordinary members, support will be given to this institution by the noblemen and gentlemen resident in, and representing, the counties and boroughs in the mineral districts, as also by the lords of the mineral soil generally, and by parties who have greatly benefited by mining, and possess mining influence. As the avocations of these noblemen and gentlemen will undoubtedly pre-clude the favour of frequent vists, it is trusted that they may still honour the proposed institution with their patronage and support, by becoming Life Honorary Members, paying a present subscription of Ten Guiness in lieu of all annual subscriptions, which will emittle them to all the advantages of the institution, and constitute them, or years, members of the committee, should they desire it. institution with their patronage and support, by becoming Life Honorary Members, ing a present subscription of Ten Guineas in list of all annual subscriptions, which entitle them to all the advantages of the institution, and constitute them, co facts, which entitle them to all the advantages of the institution, and constitute them, co facts, which entitle them to all the advantages of the institution.

Subscriptions from mines will entitle any one of their secredited proprietors or ago to be advantages of the institution.

Letters for further information and applications for admission to be addressed to J. G. Beckerjeg, 18, Cornhill; to Mesers. Crossman, Sommers, and Co., 28, Threadnes street; or to Mr. R. Tredinnick, Three Kinga'-court, Lombard-street, London, where tailed prospectuses may be obtained; prospectuses can also be had at the Mining Jose office, 26, Fleet-street.

Cinc., 26, Fleet-street.

\*\*ELBOROUGH SILVER-LEAD, CALAMINE, AND LIBOROUGH SILVER-LEAD, CALAMINE, AND LIBOROUGH SILVER-PROSPECTUS.\*\*

This MINE is signated in the partsh of HUTTON, Somerset, within four miles of Weston-Super-Mare, and Uphill Quarry, and 29 miles of the Banwell station, on the Great Western Rallway, is divided into 266 shares, and managed on the Cost-book Systom. The sett, which comprises 800 fathems in length and 400 fathoms in width, ceurains a great number of locks, which have proved very productive as far as they have been strongly. The sett which have proved very productive as far as they have been wrought. The sett was a set of locks, which have proved very productive as far as they have been wrought. The setting of locks and the work of the set of head of the set of the set of head of the set of head of the set o

clearing up the old workings in several places; and having fully attained themselves of the value of the sext, they have commenced sinking two new shedts, is, no refer to get under the old workings, and to effectually work the mine—one of these shafts is on a perpendicular loot, having six other lodes underlaying towards it, and which, if they continue their present underlay, will all be interacced within the depth of 60 fathorms from surface, seem underlay, will all be interacced within the depth of 60 fathorms from surface, company, or on the old from which several tons of lead have been raised by the present company, or on the old workings, which on this lode have been prosecuted to the depth of 20 fathors, leaving a course of lead now in the bottom—but having been wrought in such a size agreement, as course of lead now in the bottom—but having been wrought in such a size agreement, as course of lead now in the bottom—but having been wrought in such therefore, being small; east of the several present of the several present of the depth of 100 fathorm, without the side of a single pumpling-order expression, that in their opinion the outley of a comparatively small capital will bring the mine into a profitable state of working.

REPORTS.

a profitable state of working.

REPORTS.

TO Ms. B. VIVIAN, TUCKHROMILL, CANDONIS, CORNWALL.
Siz.,—I have been a resident in this part for the last eight years, side have this mineral country from the Bristol river to Wells, which is about 30 miles this mineral country from the Bristol river to Wells, which is about 30 miles have, in so doing, examined very carolilly the goological and mineralogical those localities, and fluid they are composed of mineral or mountain limest andistone, new red asnosone, quastra, duor-spar, silex, and jasper; there are hundreds of lodes a this range, which carry metallic and mineral ores, such as lead, fran. copper, calamine, barytes, pyrites, reddie, antimony, coal, vellow courte, and while le Having heard that there were some of my countrymen at Elborough, new working a mine, I went to see them on Tuesday, and found Capt. Trevificic adressing lead and calamine; Capt. Trevificic kased me to walk around the him; I went underground at Vivian's shaft, and saw Vivian's lode, If the loarly perpendicular—a very kindly lode, 34 ft. big, composed of sookan, elwagood saving work. At Chapman's shaft a strong lode, and very kindly north are several lodes south of Vivian's lode, and underlying north, which I this to drop in and improve this lode in depth. I think this altogether a very prom it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, and it is in the mountain limestone that this mine is, an

the principal British lead utines are situated, and they are those of Somersetshire, shire, Yorkahire, Camberland, Shropshire, Flistshire, and Denbighshire—those a most productive for lead and calamine.

The lead mines in Cornwall and Devon are in primitive rock, so that the Cernibovon miners in general know but little about limestone formalion.

I think Somerset will make a great mining district, some day. I have an accountitie mine that paid in 1812, 2808 15s. 10d. for dues; and lake the average, they we more than 15 fathoms deep, and they rose hundreds of pounds' worth, 8 or 19 fateep; this mine is four miles saat of Ethorough Mine.

Catland's Cottage, Wrington, near Bristel, Somerset, May 6.

Oatland's Cottage, Wrington, near Bristal, Somerset, May 6.

Bis.—In compliance with your wish, I hereunder hand you a few remarks such appearances and future prospects of Elborough Mine.

This mine is situated on Elborough-hill, in the parish of Hutton, and about the course of the lodes (eight or aims in number), nearly the whole of whis worked on the backs, by the old men, and from the appearance of the word quantities of lead have been raised.

I find your operations are at present confined to sinking a shaft on the cour lode, which appears to be the principal one, and most regular in its course pendicular—its longitudinal direction is about 10° south of east; this shaft shhoms from surface, at which point be lode is I bets wide, composed principolode, indeed; I would strongly recommend you, to get down this shaft, within the lode is a longitudinal direction of the south of this, dippin lode you are now sinking on; should they retain their regular course and will have the junction of these lodes in the shaft, within the depth of 60-ba down about 16 fathoms from surface, with this shaft, they cut into a large course and the lode is at present small—composed of flookan, spar, and lead. I would mend you to place four men in this end, as it is my opinion that the wholes the lode is at present small—composed of flookan, spar, and lead. I would mend you to place four men in this end, as it is my opinion that the wholes the lode is at present small—composed of flookan, spar, and lead. I would mend you to place four men in this end, as it is my opinion that the wholes the control of the same of the lode is at present small—composed of flookan, spar, and lead. I would mend you to place four men in this end, as it is my opinion that the wholes the same of the same of the same of the words of the same of the same of the same of the same of the sam down about 16 fathoms from surface with this shaft, they cut into a large of has been made into a good whim-plat—here an end was begun, diving east of his lode is at present small—composed of flookan, par, and ised. I would mend you to place four men in this end, as it is my opinion that the whole this part approximate, and form a junction between 20 and 30 fathoms furry you now are—this being done, you will fairly prove this peri of the mine; from able state of the ground, a great quantity can be developed in a short tire continue as it now is, the cost for driving or sinking will not account the continue as it now is, the cost for driving or sinking will not account the continue as it now is, the cost for driving or sinking will not account the continue as it now is the cost for driving or sinking will not account the continue as it now is the cost for driving or sinking will not account the continue as it now is the cost for driving or sinking will not account the continue as it now is the cost for driving or sinking will not account the continue as it now is the cost for driving or sinking will not account the continue as it now is the cost for driving or sinking will not account the continue as it now is the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking will not account the cost for driving or sinking w

continue as it now is, the cost for driving or sinking will not exceed 60s, per ashom.

On Chapman's works the lode has been laid open about six fathoms deep, where fit is feet wide, composed of barytes, calamine, and beautiful spar, intermixed with last-a very promising lode.

Further north still, about 60 fathoms, there is a parallel lode with the one last instituted; this lode has been wrought on 14 fathoms deep, where it is 3 feet wide—one posed of barytes and a little lead; Capi. Trevithick informs me the returns from this parallel been equal to the outlay; these works are for the present suspended.

Before I couclude, I bet to observe, that it is my opinion, from the congenial strais which the lodes are imbedded, and the promising appearance of the lodes at this small which the lodes are inbedded, and the promising appearance of the lodes at this small depth, triat you will at no distant period have a profitable concern.

F. C. HARPUT, Mendip Hills Mines, May 6, 1847.

A SSAYING AND ANALYSIS.— Mr. MITCHELL beginform the Managers, &c., of Mines, SMELTING-WORKS, and Manus Tories, that he still continues to CONDUCT ASSAYS and ANALYSES of all EDUCTS, metallurgical and manufacturing, at his LABORATORS, and WANUS 28, HAWLEY-ROAD, KENTISH TOWN, LONDON, to which address communications are to be forwarded.—Instruction in all branches assaying and analysis as usual.

London:—Printed and Published, weekin by Heway Essessi, at the Office, So. 26, FLEET-STREET, in the city of London, where all Communications and Advartisements are requested to be forwarded—addressed to "the Editor"—post-paid.

August 21, 1847. \*\* It will at all times save much delay and inconvenience, if communications are rected simply - To the Eutros.

\*\* To the Eutros.

\*\* Mining Journal Office,
26, Flexy-Trans., London.

And Post-Office Orders, &c., must be made payable to William Salaton Mars as setting for the proprietors.